

FIFTY-SEVENTH ANNUAL REPORT

of the BOARD OF TRUSTEES *of the*

OHIO STATE UNIVERSITY

TO THE GOVERNOR OF OHIO

FOR THE YEAR ENDING JUNE 30

1927

MCMXXVII

THE OHIO STATE UNIVERSITY
COLUMBUS, OHIO

THE OHIO STATE UNIVERSITY

HONORABLE A. V. DONAHEY, *Governor of Ohio, Columbus, Ohio:*

MY DEAR SIR—I have the honor to present to you the annual report of the Board of Trustees of the Ohio State University for the year ending June 30, 1927, as required by law.

Yours very truly,

JULIUS F. STONE,
Chairman Board of Trustees.

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ANNUAL REPORT OF THE PRESIDENT

HONORABLE JULIUS F. STONE, *Chairman of the Board of Trustees, The Ohio State University:*

DEAR SIR—I have the honor to present through you to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the Fifty-seventh Annual Report of the Ohio State University for the year ending June 30, 1927.

This report, in part, consists of extracts from the Annual Reports made by the Deans of the Colleges and the Chairmen of the Departments and of Divisions. The entire report in these cases is kept on file for frequent reference and use during the year, but it is not thought necessary to give publication to the entire report as made.

In part, also this report will consist of a review of the various activities of the University and information of a related nature which will assist in giving a picture of the University in action.

PHYSICAL ACCOMODATIONS

Pomerene Hall was built and went into service several years ago, housing the work in Physical Education for Women and, so far as possible, the social organizations and activities of the young women, and the Dean of Women. Two years ago the Legislature generously provided an appropriation for a North wing of this Hall and this has been practically completed and will be ready for occupancy at the opening of the Autumn Quarter, 1927. The plan is to use the South wing entirely for Physical Education for Women and the usefulness for this purpose of the South wing has been greatly increased by the addition of a natatorium and the vacating of the building by the social interests. The young women of the University will now have excellent indoor facilities in this place. The North wing, newly completed, has been provided with a high grade of furnishings throughout and will be devoted to the social and organization activities of the women students of the University under the general direction of the Dean of Women. The large basement of this building will be occupied by a cafeteria operated by the Department of Home Economics. The addition of this North wing or social wing of Pomerene Hall to the University's physical equipment is noteworthy and when it comes into full service in the Autumn Quarter the social accommodations for the women students of the University will be very select and quite ample for the present.

Additional accommodations have been provided for the outside work of the young women in Physical Education in the Field House for Women. Adjacent to this Field House will be a playground of about ten acres which, for the present, will give ample opportunity for the field sports in which the young women of this day are being carefully trained.

The College of Dentistry for some years was inadequately and uncomfortably housed but at the opening of the Fall Quarter it will be fully accommodated in the Dentistry wing of Hamilton Hall, completed during the year, so that both Medicine and Dentistry will find a home in this new building. Dean Semans expresses the view that the College of Dentistry will be provided

with almost perfect accommodations, ample to take care of its growth for a number of years.

The new home for the President of the University has been completed and occupied during the past year. It is located on the site of the residence formerly used by the Director of the McMillin Observatory and overlooks the little valley in which Mirror Lake is located and along which is presented the most attractive landscape afforded by the University grounds. The building itself is of the English-Tudor style, of carefully selected materials throughout and exceptionally well constructed. The building and its location and the views afforded from its terraces furnish a most delightful living place for the Chief Executive of the University.

Through the Campus, at desired places, great improvements have been made in the walks; here and there the need for them has existed for some time but the University funds were not equal to their construction. However, near the end of the past year some balances were found which might be devoted to this purpose and as a result some much needed walks have been provided at strategic places.

West of the River on the North side of Lane Avenue, is a ten acre garden plot known as the Salzgeber tract, adjoining the University holdings, which for some years has been devoted to intensive gardening. This was purchased during the year, and this acquisition will aid in straightening out the University holdings at that point and will also give to the Department of Horticulture and Forestry a new field excellent in its fitness for experimentation. For some time the College of Agriculture has been desirous of opening up for the Department of Horticulture a piece of land West of the Olentangy River and now that this department has come into possession of the Salzgeber tract its activities on the East side of the River on the land adjoining the Campus may come to an end and go on across the river with increasing importance.

The relocating of the Sun Dial, which was a gift of the class of 1905, places this fine memorial in one of the circles on the "Long Walk" through the oval. The money to relocate the Sun Dial, and to place it in fine condition, was provided by Mr. Hugh J. Baker, a graduate of that class.

The class of 1921 left as its memorial a fund to be used in the purchase and erection of a flag pole. This fund became adequate for this purpose during the year and the flag pole now stands as a memorial to the spirit of this class, in front of the Administration Building, near the terrace and esplanade, and makes a very desirable addition to the view at that point.

OHIO EDUCATIONAL CONFERENCE

Among educational meetings held at the University during the year the Seventh Annual Educational Conference takes first rank. Since its establishment this Conference has become more largely attended each year, its program has been progressively built to focus upon one or another of the essentials of the educational process, such as "training for teaching" in 1926, and "experience in teaching" in 1927; further, the appeal of this conference has been constantly widening and most of the communities of the State now send representatives to its meetings. Likewise the staff of lecturers and conference and discussion leaders has grown more cosmopolitan each year and the purpose has been consistently kept in mind of bringing to the educators of Ohio the outstanding men and women in various educational fields.

It will be remembered that the conferences are held entirely under the

auspices of the College of Education and has no organization except such as exists in the Executive Committee, composed of members of the staff of the College, which functions from one year's end to another and constantly is engaged in planning and thinking about the next year's conference. The conference is, therefore, a permanent institution managed by the College of Education progressively in such way as to take entire benefit from its cumulative experiences and it is believed has become a very great factor in the educational thinking throughout the State.

OTHER EDUCATIONAL MEETINGS

The American Mathematical Society and the Mathematical Association of America held a joint meeting at the University in September, last; the Department of Mathematics acted as host to these visiting societies. The University extends a cordial welcome to these learned and professional groups and receives an accession of educational fervor from their deliberations.

The Ohio College Association, as usual, held its annual meeting on the Campus contemporaneous with the Educational Conference. Through these contacts the University is very gladly rendering a service to the general cause of Education.

The Ohio Academy of Science met on the Campus on April 14th, 15th, and 16th; Dr. John H. McGregor lectured on April 14th, under the auspices of Sigma XI; Dr. C. E. McClung, University of Pennsylvania, lectured on the 15th and 16th.

COOPERATIVE RESEARCH

Various Departments of the College of Agriculture have been engaged in research work for some years, along with the teaching activity, and research work has also been carried on, of course, by the Ohio Agricultural Experiment Station. Dean Vivian of the College of Agriculture, and Director Williams of the Experiment Station, have become convinced of the desirability of establishing cooperation in the research efforts of these two institutions, such research to be carried on at the University by various members of the faculty of the College of Agriculture, in connection with their teaching duties, or as an independent activity disconnected from teaching, to be in part financed by the Experiment Station. This arrangement is approved, to become effective next year, and it will present to the teaching staff the opportunity of carrying on systematic research in connection with the teaching effort and will put to the most complete use the laboratory facilities provided by the University, and will enable expansion of these facilities. It is expected that this cooperative arrangement will produce excellent results for both the Station and the University; it is recognized that the intensive study carried on by a teacher reflects itself in rising enthusiasm in the classroom.

DEPARTMENT OF MUSIC

This department was created two years ago but difficulties were experienced in providing a staff; a start was made in choosing Professor Royal D. Hughes as Chairman, to prepare the curriculum and give attention to the details of organization and meanwhile carry on a few courses in music until the University might find itself in position properly to finance this desirable activity. The Department has two aims, generally speaking, one being the

training of teachers and supervisors in music for the public schools and the other developing the work of a conservatory nature with such reasonable rapidity as can be done in consideration of the primary interest of training teachers. It is a pleasure to announce that a staff for the Department of Music, which may be regarded as a minimum, will be in charge of the work during the coming year. The old residence of the Presidents of the University is undergoing some needed alteration to fit it to become the home, temporarily, of the Department, and all look forward with much confidence to the growth of this department and the fine effects which normally this activity may be expected to produce in the life of the University.

UNIVERSITY BOOKSTORE

Some years ago a bookstore was opened on the Campus under the control of a cooperative organization, including students and faculty members, and was carried on with considerable growth up to a year ago. Some objection, continuously, had been made by Columbus book dealers and other merchants to the presence on the Campus of a book selling enterprise, and finally the plan adopted was that the cooperative bookstore should be absorbed by the University and thenceforward carried on under University auspices. The announcement of this plan increased the local opposition and several judicial hearings were had inquiring into the right of the University to carry on this enterprise. The view of the courts, uniformly expressed, was that the University had this authority and, accordingly, the bookstore is now comfortably housed in the East basement of the old Chemistry Building and is carrying on the work of supplying students with books and stationery and other necessary articles of this general nature. The establishing of the University Bookstore is in harmony with developments in other directions, especially with the provision of restaurants and cafeterias at various places on the Campus. The conception of the proper functions and activities of the University has been undergoing a change as the number of students has mounted into the thousands and the University has become, really, a great community with social and spiritual and economic needs which may be satisfied by student organization activities and by the active efforts of the University to give aid and make progress possible in those directions which greatly affect the educational and the social activities of the student body.

The faculty must not be left out of mind in this thinking about the functions of a modern University because their number also runs into the thousands, and so the judicial holdings are quite in conformity with the trend of developments in these large educational institutions; and concerning these places as well as others in the body politic, the law is again and again laid down as it should be to be of the greatest usefulness in modern society, and not as it used to be when it was functioning in the earlier stages of a society with rudimentary institutions.

In this connection it may be stated that the University Press Committee has been expanded in its functions so as to cover the bookstore, the local mailing department and the University Press. This combination of activities under one head should produce a more effective organization and one which more clearly meets the growth of the institution in those particulars. The position of Director of the University Press was created during the year to have charge of these activities, and Mr. Meiric K. Dutton was selected for that office; for several years previously he had been in the service of the

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Plimpton Press, Norwood, Massachusetts, and since January has been in charge, with excellent promise of fine results.

This is under the general supervision of a Committee which is responsible for all printing and for the approval of manuscript submitted for printing. The following tabulation is submitted by the Secretary, Edith D. Cockins, and since this is not matter of common knowledge and has not customarily been printed, it is presented at this point to give a picture of this vital but slightly appreciated activity.

THE OHIO STATE UNIVERSITY BULLETIN
YEAR 1927-1928
Thirty Issues

Regular Bulletins	Number of Copies Printed	Dated
1. Winter Courses in Agriculture.....	11,000	July 1927
2. †Special Bulletin—see below		Aug. 1927
3. Proceedings Seventh Educational Conference.....	2,750	Sept. 1927
4. *Dept. of Extension, College of Commerce and Administration.....	10,000	Oct. 1927
5. University Directory.....	4,000	Nov. 1927
6. General Information.....	10,000	Nov. 1927
7. College of Dentistry.....	2,500	Dec. 1927
8. Stone Laboratory.....	2,000	Dec. 1927
	Number of Copies Estimated	
9. Applied Optics	2,000	
10. College of Law	2,500	
11. Summer Quarter	9,000	
12. College of Veterinary Medicine	2,500	
13. College of Liberal Arts	8,000	
14. College of Agriculture	4,500	
15. College of Engineering	6,000	
16. College of Medicine	3,000	
17. College of Education	7,000	
18. College of Commerce and Administration	7,000	
19. School of Journalism	2,500	
20. School of Social Administration	2,500	
21. College of Pharmacy	2,500	
22. Graduate School	3,500	
23. Time Schedule	20,000	
24. Proceedings of Management Week		
25. Announcement of Commencement Week	18,000	
26. Courses in Nursing	1,000	
27. General Catalog	2,000	
28.		
29. Teaching Staff	1,000	
30. Annual Report.....	400	

Special Bulletin

2. †Department of Fine Arts.....	5,000	55 pp.	6	x9
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YEAR 1926-1927

Thirty Issues

Regular Bulletins	Number of Copies Printed	Number of Pages	Size
1. Winter Courses in Agriculture.....	11,000	32	6 x9
2. Proceedings Sixth Educational Conference.....	2,500	465	6 x9
3. *Dept. of Extension, College of Commerce and Administration.....	20,000	21	6 x9

*Charged against Commerce Extension Funds.

†Printed or ordered.

Regular Bulletins	Number of Copies Printed	Number of Pages	Size
4. University Directory.....	4,000	310	5½x7½
5. Stone Laboratory (Formerly Lake Laboratory).....	2,000	18	6 x9
6. College of Dentistry.....	2,500	37	6 x9
7. General Information.....	10,000	102	6 x9
8. Applied Optics.....	2,000	32	6 x9
9. College of Law.....	2,500	36	6 x9
10. Summer Quarter.....	9,000	155	6 x9
11. College of Veterinary Medicine.....	2,500	48	6 x9
12. College of Liberal Arts.....	8,000	197	6 x9
13. College of Agriculture.....	4,500	144	6 x9
14. Special Bulletin—see below			
15. College of Engineering.....	6,000	143	6 x9
16. College of Medicine.....	3,000	85	6 x9
17. College of Education.....	7,000	234	6 x9
18. College of Commerce and Administration.....	7,000	136	6 x9
19. School of Journalism.....	2,500	48	6 x9
20. School of Social Administration.....	2,500	60	6 x9
21. College of Pharmacy.....	2,500	44	6 x9
22. Special Bulletin—see below			
23. Graduate School.....	3,500	236	6 x9
24. Time Schedule.....	20,000	110	6 x9
25. Announcement of Commencement Week.....	18,000	4	4½x6
26. Courses in Nursing.....	1,000	56	6 x9
27. Publications of Teaching Staff (issued biennially).....	2,500	50	4½x7½
28. Teaching Staff.....	1,000	106	6 x9
29. General Catalog.....	2,000	1,008	6 x9
30. Annual Report			

Special Bulletins

14. Information Concerning Persons Granted the Degree, Doctor of Philosophy.....	500	56	5½x7½
22. Special Announcement. Courses in Geography.....	2,500	16	6 x9

OHIO STATE UNIVERSITY STUDIES

1926-1927

Title	Charged Against Funds	Number of Copies Printed
Studies of Salmonella Pullora.....	University Press	500
Manual of Campaign Publicity for Schools.....	University Press	2,500
The Organization of State Departments of Education...	University Press	1,000
Organized Research in Education.....	University Press	1,500
The Intelligence of Jews as Compared with Non-Jews...	University Press	1,000
Aspects of Thorndike's Psychology in Their Relation to Educational Theory and Practice—Reprint.....	University Press	1,000
Cross Reference Index of Educational Publications.....	University Press	1,000
International Rivalries in Manchuria—Second Edition...	University Press	500
Aspects of Thorndike's Psychology in Their Relation to Educational Theory and Practice	Graduate Council	1,000
Trends of School Costs in Ohio	Graduate Council	500
Jose de Escandon and the Founding of Nuevo Santander...	Graduate Council	500
International Rivalries in Manchuria	Graduate Council	500
Observations on the Grasslands of the Central United States	Graduate Council	500
Rural Recreation in Two Ohio Counties.....	Graduate Council	1,000
Four Unpublished Speeches of Lincoln	Graduate Council	500
Project Method in Education.....	Graduate Council	1,000
The Ten-Payment Plan of Retailing Men's Clothing.....	Bureau Business Research.....	1,000
Employment Studies in Ohio Industries.....	Bureau Business Research.....	1,500
Money Lending Practices of Building and Loan Associations in Ohio	Bureau Business Research.....	2,500
The Social and Economic Relation of the Farmer in Pickaway County, Ohio	Bureau Business Research.....	2,500

Title	Charged Against Funds	Number of Copies Printed
Telephone Plant Value	Engineering Exp. Station.....	3,000
A Plan of a Cooperative Sliding Scale of Wages as Applied to Bituminous Coal Mining	Engineering Exp. Station.....	2,000
Effect of Stratification of Furnace Gases on Steam Boiler Losses	Engineering Exp. Station.....	2,000
A Symposium on Lime	Engineering Exp. Station.....	
The Polarized Alternating Current Electromagnet....	Engineering Exp. Station.....	2,000

THE OHIO STATE UNIVERSITY
MISCELLANEOUS BULLETINS AND PAMPHLETS

1926-1927

	Charged Against Funds	Number of Copies Printed	
The Ohio Newspaper	Ohio Newspaper	Ten issues: 1000 each issue	
Bulletin of Business Research.....	Bureau Bus. Research	Monthly: 5000 each issue	
The Educational Research Bulletin....	Bureau Edu. Research	Fortnightly for 9 mos.	
Radio Station WEOO—Monthly Radio Program Bulletin:	University Press		
November		15,000	
December		4,000	
January		4,000	
February		4,000	
March		4,000	
April		4,000	
May		4,000	
June		4,000	
Proceedings of Management Week—Three Sections:	University Press		
Part I—Statistics Section		1,000	Pages 72 Size 6½x10
Part II—Industrial Management Section		500	134 6½x10
Part III—Elimination of Waste Section		500	79 6½x10
Eastern Inspection Trip Bulletin for Fourth-year E. E. and M. E. Students	University Press	480	
Junior Inspection Trip Bulletin for Third-year M. E. students.....	University Press	200	
Junior Inspection Trip Bulletin for Third-year E. E. Students.....	University Press	260	
Special Announcement—Courses in Music	University Press	4,000	26 4¾x6
Announcement of Coaching Courses—Department of Physical Education..	University Press	2,000	7 4½x6¼
Summer Quarter Posters	University Press	4,000	
Commerce Extension Posters:	Commerce Extension		
Columbus 125, Zanesville 50, Toledo 100, Marion 25, Canton 100, Newark 50, Lima 50, Dayton 100; total.		600	
Faculty Studies Series	President's Funds		
Ohio State University Rules and Regulations for Students	Registrar's Funds	10,500	52 3½x6
Commencement Programs:	Commencement Com.		
August 1926		1,200	22 6 x9
December 1926		1,200	15 6 x9
March 1927		1,200	13 6 x9
June 1927		6,500	52 6 x9

CHANGES IN ADMINISTRATIVE PERSONNEL

In December, Professor William Edwards Henderson resigned from the Deanship of the College of Arts, in which office he had served with signal distinction for six years. He had high ideals concerning the place of a College of Liberal Arts in a modern State University and his administration was marked by a continuous movement of the College towards those ideals, both in some matters of reorganization and in the spirit of scholarship manifested by its faculty. Dean Henderson wearied somewhat of the minutiae of the administrative detail and preferred to return to the teaching of science, to give special attention to the teaching of courses dealing with the development of modern science and scientific method. His reflective and constructive mind, and his unusual ability both to analyze and synthesize will enable him to present this area of learning to the student in a most appealing way.

Professor Wilbur H. Siebert was made Acting Dean upon Dean Henderson's resignation and has been aggressively furthering the progress and interests of the College of Liberal Arts during the year. It may be added at this point that the familiar name "College of Arts, Philosophy, and Science" was, during the year, changed to "College of Liberal Arts."

The office of Dean of Women, which has been capably filled during the past year and a half by Miss Jessica Foster in the capacity of Acting Dean, has now been permanently filled by the selection of Dr. Esther Allen Gaw, who for six years has been a Professor and Associate Dean at Mills College, California. Dr. Gaw is a graduate of Western Reserve University and later a Doctor of Philosophy from the University of Iowa, where the major part of her work was done under the direction of Professor C. E. Seashore, in Psychology. She has had teaching experience in public schools and colleges and will come to the work of the Dean of Women with wide experience and large enthusiasm.

Following the death of Dean John J. Adams, Professor Alonzo H. Tuttle became Acting Dean of the College of Law, and has carried on the work of the College with success and enthusiasm during the year.

LECTURERS

Each year lecturers of ability in their special fields of study have come to the University, but this year has been remarkable for the number and quality of the lecturers who have appeared upon the invitation and under the auspices of the Graduate School. A list of such lecturers appears in the Report of the School elsewhere in this volume and it will be noted that they cover a great many fields of thought; all were of much interest to the University community. Probably the lectures relating to modern physics furnished the widest appeal and an account of these lectures written by Professor Alfred D. Cole, for years the Chairman of the Department of Physics in this institution, will be found in connection with the report of the Graduate School. Especially the lectures by Robert Andrews Millikan furnished the noteworthy feature of such activities at the University, and they present a striking commentary on the growth of the Graduate School itself, the standing in the Community of Universities and its vision of the proper intellectual stimulus which this University should feel. I am here merely expressing the sentiment and the hearty commendation of our own University community in making these references to the Graduate School and its accomplishment.

STUDY OF THE UNIVERSITY

During the year there has been considerable activity through committees of the University faculty in the study of the University organization, the educational problems, the matter of student activities and student health and the experiences especially of freshmen in their educational work. A general committee was constituted by the University faculty and after giving some attention to these general questions relating to the activities of the University and presenting an outline of the studies calling for early attention various subsidiary committees were constituted to inquire intimately into some of these questions relating to the proper functioning of the University. These committees have been very active and some reports have been presented, the first one relating to student health which has met the approval of the faculty, but further progress concerning its recommendations is awaiting a more settled condition of administration both in the Department of Student Health and in the College of Medicine. A very careful study was prosecuted by one of the committees into the matter of separation of the activities of the University into Senior and Junior divisions and the report on the subject of a Junior Division is in the hands of the members of the faculty for discussion at an early date.

This question is recognized as an acute one in all the larger State Universities for two reasons:—in many states all may enter the State University who are graduates of first grade high schools or their equivalent and as a result the attendance has grown enormously and the educational problem has correspondingly become more difficult. Large numbers with imperfect preparation and no great aptitude or appreciation for University work are undertaking it and in constantly increasing numbers are failing or making such meager success in the effort that they abandon the University discouraged and disposed to place the blame for the condition upon the University.

On the part of faculties also the question has been much discussed whether the University methods and organization are entirely adapted to the stage of preparation and the proper training of these swelling numbers of lower classmen, and various proposals have at different times and in different institutions been put forward and in some cases tried. There has been much evidence that the larger State Universities have felt that they have not been doing all that the situation demanded, but in the presence of traditions and usually straitened finances the educational process has generally been continued as usual.

This is the situation faced by the committees mentioned above and the Junior Division Report presents a plan for experimenting with the hope of solving this problem. It is plain to all that an annual attendance of over thirteen thousand students, nearly one-fourth of whom are freshmen, calls insistently for a reappraisal of our educational methods and organization. It is a problem which is inviting and receiving most discriminating thought from the faculty.

It is not the purpose to neglect any other area of the University activity while this proposed experiment may go forward with the lower classmen; it is thought that if an improved process may now appear for dealing with the freshmen and sophomores, the future juniors and seniors will show these desired results and the body of graduate students will manifest a commendable advance in the quality of training and flexibility of mental processes. Both

of these upper regions of University study will feel both directly and indirectly the stimulating effects of such improvements as can be successfully carried out below and are therefore vitally concerned in the experimenting.

In furtherance of the effort to make the break between high school and the University less abrupt the Faculty during the year decided to institute "Freshman Week" at the opening of the Autumn Quarter. This will be a period of five days preceding the opening of class exercises devoted to acquainting the newcomers with each other, to some extent, and with their University surroundings and facilities and with something of the purposes and methods of the life of the student. This is being undertaken with much enthusiasm and its effects and its possibilities will command close attention. It is hoped that when formal recitation and laboratory work begins the young student may have a settled and somewhat "at home" feeling.

At this point attention may be called to the steady growth of the Graduate School as shown by the statistics elsewhere printed; in the Summer Quarter, for several years, about one-third of the total enrollment has been in this school, and a fine service to the cause of higher education is being rendered by this activity.

Studies have also been under way concerning the sources of supply of graduate students to this institution and of upper class students, and there have been printed and distributed careful statistical studies of failures, delinquencies and the general scholastic experiences of freshmen students; also, of the service relations among the different colleges of the University, endeavoring to ascertain the service rendered by the staff of one college to the students in other colleges, the popularity of electives in one college for students in other colleges, and in general, the scholastic inter-relation among the colleges. These studies have developed some very interesting and some rather striking scholastic situations which are receiving the attention of the faculties of the colleges as well as that of the University faculty.

These inquiries by faculty committees have been carried on with the most eager interest and a very strong desire to ascertain whether the activities of this University are being conducted in the most enlightened manner possible, whether the practices here depart injuriously from the best accepted practices elsewhere, whether our methods and organization call for improvement, and generally, to orient the problems connected with the educational processes in such manner as to make them a subject of every day thought on the part of the members of the teaching staff.

STUDENT ACTIVITIES

This term covers a multitude of organizations and efforts on the part of the students to provide for their many activities of a social and of an extra educational nature; these activities have increased marvelously in recent years and with the presence now of over 13,000 students during the course of the year, the myriad of activities engaged in by the students is calling for more comprehensive and also more nearly personal supervision and regulation on the part of the administration.

During the year Mr. Joseph A. Park, Secretary of the University Y. M. C. A., and acting under its encouragement made a study of student activities, the first of the kind undertaken here in the comprehensive manner in which he carried it on, resulting in a report with a number of recommendations as to future organization and policy. The students interested in the leading student

activities took up the recommendations which he made and in pursuance of them organized a student self-governing body known as the Student Senate and a second group known as the Student Court. These organizations have been made with considerable enthusiasm and the leaders among the students are eager to put them into use the coming year.

The administration is sympathetically interested and the Board of Trustees gave approval to the appointment of a Student Counselor to have general contact with the great body of student activities, and to give aid and counsel to them as well as to individual students. Previously the University faculty and administration had kept in touch with these student activities through a Council on Student Affairs, made up of members of the Faculty, but experience showed that the degree of attention required by these student activities was too great to expect from busy professors and accordingly this new office has been established. It will be filled and will go into action during the coming year and the hope is expressed that a more intelligent and helpful contact of the University administration with student activities may hereafter be possible.

ENGINEERING EXPERIMENT STATION

During the year the State of Ohio came into the possession of what is known as the Roseville Brick Plant and the Department of Public Welfare opened up this interest to the University through its Engineering Experiment Station by inviting the University to undertake research in the Ceramic industries, and a brick kiln, which for some years was located in Lord Hall on the Campus, was moved to Roseville and an agreement entered into whereby the Experiment Station will undertake research on a commercial scale. It is expected that results of great value to the Ceramic industries of Ohio will, from time to time, be reached. This presents a cordial cooperation on the part of two branches of the State which will demonstrate that the State activities should not be compartmented but that there should be a spirit of mutual help to the end that the people of the commonwealth may receive maximum benefits with the minimum expenditure of money.

CERAMIC ART

The Ceramic industries of the State have shown a large development in recent years and the various Ceramic Associations have solicited the College of Engineering, through the Departments of Ceramics and Mining especially, and the Engineering Experiment Station, to provide for instruction in various phases of this field as well as for active study of the conditions of these important industries. One of these interests has been in the field of Ceramic Art, in which the industries themselves have been confessedly weak and in preparation for which the Universities have done almost nothing. Courses in Ceramic Art have now been provided in this institution in which there will be some collaboration between the Department of Fine Arts and Department of Ceramic Engineering, with the thought that in a few years students may go out who will be able to develop artistic qualities in the Ceramic products of this State which will compare favorably with the Ceramic Art of European potteries.

CORN BORER

The University has been actively in touch with the needs of the various interests of the State in the directions above mentioned and has continuously through the years been practically calling the attention of the people of the

State to the presence and accomplishments of their State University. The College of Agriculture has since its founding been actively in contact with the rural interests of the State and more recently has been called into the war against the corn borer, a pest of menacing proportions with a surprising tenacity of life and ability to do harm. The Department of Agricultural Engineering has contributed much in the way of newly designed machinery for disposing of the corn stalk after the grain has been harvested, and demonstrating the same in various regions of Ohio; besides it has made a very substantial contribution to the corn borer fight carried on under the auspices and at the general expense of the Federal government throughout Ohio in the month of May last. The Department of Botany also has made contributions to the attack on the corn borer pest, Professor Transeau having been released from duty, temporarily, at the University, for the purpose of making a study of the several regions in Europe where this pest has been in existence. This activity on the part of the University seems merely to be another demonstration of the fact that the University is close to the people and their intimate interests, and is ready at all times to aid in those matters which call for scientific treatment, and which are of general interest. Through the years this disposition on the part of all persons connected with the University has been clearly manifested.

GIBRALTAR ISLAND

This Island, which lies at the entrance to Put-in-Bay harbor, in Lake Erie, has become the property of the University through the very generous gift of Julius F. Stone, of Columbus, Ohio. Mr. Stone has, on numerous occasions, presented to various departments of the University valuable pieces of apparatus, and has made donations for specific pieces of research and has, in these and many other ways, manifested an abiding interest in the educational work which the University has been endeavoring to do. He was moved to present this island to the University as a home for the Lake Laboratory, which the University has been maintaining for thirty years or more, and he expressed the hope that the food possibilities of the chain of Great Lakes, and especially Lake Erie, might be subjected to careful investigation of a continuous and highly scientific nature over a long period of time. The University Lake Laboratory has been established on the island and considerable progress has been made towards the erection of the Laboratory building. During the session just closed the Legislature generously appropriated a sum of money for the purpose of completing the Laboratory. It is expected that upon completion this will be the leading station for the study of fresh water life, both animal and plant, in the United States.

THE UNIVERSITY RELATED TO THE LIFE OF THE STATE

The Bureau of Educational Research is very frequently called upon to make a study of local conditions relating to school administration, school buildings and school economy in general and has been very glad to give the benefit of the studies to school communities and school authorities; in this and many other ways, the Bureau has shown its vital relationship to the general public educational activities.

The Bureau of Business Research is answering calls coming in from various kinds of business and is applying methods of study of business problems founded on sound principles of economics and business organization, to the

questions which are constantly being presented, and in this and other ways is extending the aid of the University to Commerce in general.

In a number of instances during the year members of the teaching force have been granted a leave of absence from the University duties, without pay, to undertake in an industry the particular kinds of investigation or study which that industry desired. The mining industry, the telephone industry, the rubber industry, and others, have made use of members of the University faculty in this way, and not only has the business been aided but upon return to their teaching duties such professors bring back an inspiration and enthusiasm and an increased degree of technical knowledge which will be of the greatest service in the University teaching. This seems to be a worthy public service and, although, when the capable University teacher leaves the University for a period of time, it is somewhat difficult to fill his place acceptably for the interim, yet the University authorities feel that the temporary sacrifice, which may be a slight one in the end, should be made in the interest of the public through whose spirit of generosity the University was created, has continued to exist, and is experiencing a steady development.

THE LIBRARY

One June 13, 1893, the Board of Trustees elected Miss Olive B. Jones, Librarian, thus filling the office for the first time with a person who was not also a member of the teaching staff. Miss Jones held the office continuously from that time down to June 30, 1927, a period of thirty-four years of service—practically two-thirds of the entire life of the University.

It is interesting to note briefly the fortunes of the Library in this institution. The Report of the Board of Trustees for November 15, 1875, two years after the opening of the University, shows Reverend Joseph Millikin as Librarian, he being also Professor of English and Modern Languages. The report for November, 1876, and following reports up to and including November, 1880, carry Professor Josiah R. Smith as Librarian, he being also the Professor of Latin and Greek languages. In 1881 Professor Smith was succeeded by Professor S. C. Derby, Professor of Latin and Greek languages and later of Latin alone, and from that time on to 1889, Professor Derby continued as Librarian. In the latter year, after frequent statements by Professor Derby that a professional Librarian should be employed, and finally upon his request that a Committee of the Faculty be authorized to inquire into the status of the Library and make a report thereon, a Library Council was set up and Professor Derby, from that time on to 1892, was the Secretary of the Library Council and was also carried in the records of the University as Librarian. In 1892 Professor Derby went on leave of absence and Professor J. R. Smith was the Acting Librarian during that year, and then in June, 1893, we find the above action taken by the Board of Trustees. Miss Jones had begun service in the Library in September, 1887, as an Assistant Librarian at a salary of \$15 per month and the financial report of the University for that year shows that this tiny salary was paid in a cumulative fashion—two months or three months at a time. The salary grew by very small stages until in 1891 it is reported at \$50 per month, and in 1893, Miss Jones assumed service as Librarian with full responsibility at a salary of \$800 per year! Verily, those were the days of small rewards although the work in itself was of great responsibility.

The Library grew very slowly and in Professor Derby's Annual Reports nothing stands out more clearly than his repeated expression that—"the most urgent need of the Library is books!"—and for some years the Library continued so small that the Annual Report for the year ending June 24, 1891, shows the total number of volumes to be 10,494, an increase of 1149 during that year. The report for the next year shows an addition of 1442 volumes, and at that time he joins with the Library Council in the hope "that more ample provision will be made for its support and extension, as soon as it has been moved to its new quarters in Orton Hall."

This took place not long afterwards, so that Miss Jones came into full charge of the Library by moving it from University Hall to Orton Hall and there presided over its steady and intelligent growth until the new Library Building was ready to be occupied in 1912, and she had guided its expansion in these quarters ever since.

In a communication to the Board of Trustees, dated June 4, 1927, Miss Jones reviews briefly her service and says that the Library at the present time has over 300,000 volumes and that this collection has unquestioned intrinsic value.

At the present time the Library staff numbers about 50 persons, not including a rather long line of student assistants, and has been organized generally into four departments, busied with accessions, cataloging, reference work and departmental libraries. Of the latter there is a considerable number, the largest ones being the libraries of Education, of Commerce, of Law, and of Chemistry. As indicated by the names these libraries are located here and there over the Campus for departmental service, and several of them are considerably larger than the entire Library was at the time when Miss Jones became Librarian.

The University will always remember her long and most conscientious and capable service; under her administration the Library made practically its entire growth and came to occupy the important position in the University life which the Library must occupy in a progressive educational institution. She was always active in Library Associations and attended their meetings and participated in the discussions, and was widely known through the country among Librarians. Due to her imperfect health, Miss Jones will attempt hereafter to carry only some teaching duties in Bibliography, a field of work which she developed as Librarian and which has been carried on under her guidance in accordance with her ideas for some years.

Miss Jones thus terminates forty years of service in the University, all of which was devoted to the Library; the number of members of the University teaching staff who have been so long in the service is very small, including only Professor G. W. Knight, Professor G. W. McCoard, and Professor Joseph N. Bradford, all of whom are still teaching, and former President W. H. Scott, who retired from active service a number of years ago, but who steadily maintains a living interest in all University affairs; and in the "physical plant" side of the University there is only one person who was employed at the time when Miss Jones took service. That person is William C. McCracken, in those days, University Engineer, and now for a number of years the Chief Engineer and Superintendent of Buildings and Grounds. Indeed this University for four decades has been the beneficiary of the constructive thinking and ceaseless effort of all these persons, and we of the present age bow with utmost respect and stand in admiration of their generous spirit of devotion.

NECROLOGY

I record with sorrow the death of John J. Adams, the Dean of the College of Law since the year 1909. He came to that College from the practice of Law, which he had taken up again after a term on the Ohio Circuit Court. His life as a lawyer and judge had been spent in Zanesville, Ohio, and with an outstanding reputation in both phases of legal activity he came to the University to take charge of the College of Law. The Memorial presented to the University faculty on November 11, 1926, was prepared by Professor A. H. Tuttle, who had been his colleague in the College of Law from the beginning and among other appreciative thoughts about Dean Adams Professor Tuttle makes the following statement:

"The study of law and reading in general were both his vocation and avocation. Even in the last years of his life he was always at his books, day and night. His idea of a Law School was the idea Garfield had of a College—'Mark Hopkins at one end of the log and Garfield at the other.' He was happiest when teaching law to a student anxious to learn. It was there that he was at his best for a student not only received the benefit of his vast and accurate legal knowledge but as well the influence and inspiration of a personality which for gentleness and fineness and nobility was unsurpassed."

Because of his even temperament and judicial mind Dean Adams was frequently called into the larger administrative service of the University. During the World War, in the absence of President Thompson, he was Acting President in a period which tried men's souls and really rendered futile the usual criteria for University administration and accomplishment. Later, during an illness of the President, he was again Acting President for some months.

At the end of the above mentioned memorial it is most happily said that, "It is a satisfaction to us to know that, next to his home, he found his greatest joy in the companionship and friendship of his colleagues in this faculty. He had an infinite capacity for friendship and many times did he express the satisfaction that he had in his faculty friends. It would be doing violence to his wishes to indulge in undue praise but this faculty cannot refrain from expressing in this frank manner its conviction that in the passing of Judge Adams the University has lost one of its most valuable members. He was, indeed, a man, a scholar and a friend."

Professor Albert H. Tuttle died at Berkeley, California, on January 24th, last. He was the last of the "pioneer" faculty, including Mendenhall, Orton, Norton, Townshend and others who set the University in the course which has continuously led to influence and accomplishment. Professor Tuttle had charge of the work in Zoology and Comparative Anatomy, fields which have been assiduously and notably developed here; he remained at the head of this department until 1888, when he accepted that chair at the University of Virginia, teaching there for about thirty-five years. The last few years of his life he spent in California.

Upon his leaving this University the Board of Trustees adopted the following resolution:

"Professor Tuttle has ably filled the chair which he now resigns, for more than 14 years, during which period he has been untiring in his labors, both for the development of the department under his special care and for the advancement of the University in all its lines of work. While an eminent specialist, he is a man of broad culture and sound views on the subject of general education, and his voice has been influential in shaping the general policy of the University. His great purity of character and excellent judgment made him one of the strong men of the faculty and his influence was felt in all departments of the institution."

And Professor Knight in writing about Professor Tuttle in the Ohio State University Monthly for April, 1927, says:

"It was the present writer's great good fortune to know Professor Tuttle intimately during the last three years of his connection with our faculty and in that sense to be associated with him in faculty problems, activities, discussions, debates and arguments of which there were indeed plenty. To his influence and guidance in those days of early teaching I have always felt under lifelong obligations and deep gratitude.

"It happened also that for those three years from 1885 to 1888 we lived in neighboring houses (now destroyed) belonging to the University and located on the Campus. Thus the present writer came to know Professor Tuttle in that social acquaintance which naturally develops from neighborly contacts, giving one a deeper insight into the true spirit and soul of a man than can ever be the result of mere professional association and occasional working contact.

"This intimate acquaintance with the real man, the high minded soul, the self-forgetting interest in others so evident in many different ways, explains to the writer why Professor Tuttle has been so fondly remembered and loved by the students, in the days when they were on the Campus in his classes, as one of the most outstanding and inspiring members of the University faculty."

Professor Paul R. Stevenson of the Bureau of Educational Research died on January 14, 1927; he had been associated with the Bureau since the foundation in 1921, and was becoming widely known for his ability to appraise the schools needs of a community and to present an adequate building program therefor, for his study of the problems of class size and teaching efficiency, for his study of means of publicity for carrying out community educational programs, and other activities in the Bureau studies.

Dr. H. C. Highman of the faculty of the College of Dentistry lost his life in a storm while on a week-end camping trip on July 17, 1926. Since graduating in 1923 he has been teaching in this college.

The death of Charles C. Miller, of the class of '83, must also be recorded. His life was spent in public education in Ohio, in which activity he became well and widely known as a teacher and Superintendent of Schools, an Ohio State Commissioner of Education, and served a term as a member of the Board of Trustees of this University. His interest in the public schools never abated and his connection with them continued practically down to the time of his death. He was always enthusiastic about the University and continuously interested in its growth and achievements.

Lieutenant Chester K. Smith, head of the Signal Corps unit of the Department of Military Science, died of pneumonia at the Fort Hayes Hospital, February 23rd.

Respectfully submitted,

GEORGE W. RIGHTMIRE, *President.*

COLLEGE OF AGRICULTURE

STUDENT ENROLLMENT

The total number of students enrolled in the regular courses of the College was as follows:

Four year courses in Agriculture	532
Four year course in Home Economics	338
Winter Courses	85
Total	955

While this enrollment is much below the peak of 1916-1917, it is encouraging to note that there is evidence of a change of attitude toward agriculture on the part of the farm people in general, and I believe that we may look forward to a gradual return to the former large enrollment. The decline in enrollment was due to the discouraged attitude of the farmers themselves, and their sons naturally reflected that attitude. Another feature that curtailed the enrollment this year was the very late Fall of 1926. A large number of students who had expected to return for the Autumn Quarter, and in some cases had actually paid their fees, wrote stating that they would not be able to enter because of the fact that the late Fall made it necessary for them to remain at home. An early Fall always increases the enrollment in the College, and, likewise, a later period of registration would be advantageous to the students of this College.

OTHER ACTIVITIES ON THE CAMPUS

A large number of meetings and short courses are held on the Campus of the University during the college year. Some of them are here enumerated.

Farmers' Week. This event probably reached its greatest success to date this year. The enrollment was the largest in the history of Farmers' Week, and the program was unusually strong. About 200 speakers appeared on the program and the interest seemed intense at all times. The attendance was 5946.

Pastors' School. The customary school for rural pastors was held during the summer under the joint auspices of the College of Agriculture and the Ohio Council of Churches. The appreciation of the pastors enrolled was expressed in their resolutions asking that the school be repeated. Attendance 26.

Bankers' School. The second two-day school for bankers was held in March at the request of the Ohio Bankers Association for those interested in banking in rural localities. The school was a pronounced success. Attendance 75.

Poultry School. Two sessions of a school in poultry judging of one week's duration were held during the summer. Those in attendance were enthusiastic about the course. Attendance 125.

Extension Conference. In October the usual annual conference for extension workers was held on the Campus. Attendance 250.

Club Winners' Week. In November was held the annual week for the winners in the 4-H Club work. These potential college students spent an enjoyable week on the Campus and we hope, carried away as much inspiration as they gave us. Attendance 450.

Vocational Agricultural Conference. A conference of teachers of Vocational Agriculture of one week's duration was held on the Campus during the month of July. Attendance 183.

Cow Testing School. Two weeks in the spring were devoted to training a group of young men for positions as cow testers for the Cow Testing Associations and for the work in advanced registry. Attendance 35.

Vocational Agriculture Field Day. A group of 800 high school students in Vocational Agriculture were entertained on the Campus for one day in June. It would be hard to estimate

what such a day may mean in the way of interesting these boys in the University. Attendance 800.

School for Fair Judges. The Department of Animal Husbandry held a school of two day's duration for the coaching of judges of livestock for the county fairs. Attendance 75.

4-H Club Picnics. It is a growing custom for some of the counties to bring the members of their 4-H Clubs to the Campus for a picnic and a day of sightseeing. At these meetings a short program is put on by members of the faculty. Attendance 2000.

Such meetings as these consume much of the time of the resident staff, but probably pay as well as any activity in which we participate. In addition to the meetings enumerated there are, of course, hundreds of small conferences in which one or more members of the staff must take part. This, I consider, an important feature of our service to the state.

ROTARY FUND

This year has again demonstrated the value of the rotary fund as a stimulus to better work on the part of the departments. While the amounts realized from sales are not large, they do give a little flexibility to the budget, and the fact that the money thus realized can again be used by the department encourages greater care and interest in disposing of the produce of the farm and gardens. We deplore a tendency to charge to this fund items which should be cared for from other financial sources.

THE UNIVERSITY FARM

The purchase of fourteen acres of garden land to the north of Lane Avenue has made an appreciated addition to the equipment of the Department of Horticulture. The College needs about five hundred acres more land to place it in prime condition as to farm acreage. The College is now renting about 150 acres of land, but it is becoming increasingly difficult to rent land to advantage. A detailed statement of farm operations is given elsewhere in this report.

RESEARCH

The reports of several of the departments show a healthy growth in the interest in research. Most of the research of the past has been done by the departments under a considerable handicap. A college of agriculture that does not provide its staff with facilities for research cannot hope to hold a foremost place among the colleges of the nation. It is hoped that the new arrangement for cooperative research between the College and the Experiment Station will materially improve the situation regarding research facilities for the College staff.

EXTENSION SERVICE

The law requires that a report of the Extension Service be made at the end of the calendar year. That report for the year 1926 is in your hands as required. The statements in the various department reports herein are primarily from the point of view of the resident staff all of whom do some extension work. Under our organization the college department is responsible for the subject matter which is "extended" and the projects are the result of the joint action of the extension specialists and the resident staff. The demand for extension services constantly increases and the work seems to be continually growing in favor. The quality of the service, I feel, is steadily improving.

THE STATE FAIR

The exhibit at the State Fair in 1926 was a credit to the University. The plan of having each department feature one phase of its work was again followed to advantage. This exhibit brings a great deal of publicity to the University and apparently attracted as much attention as any other feature of the fair.

CORN BORER

The situation arising from the invasion of the state by the European corn borer has thrown a tremendous amount of extra work upon the staff of the College, Resident Teaching as well as Extension. Every department in the College is affected in some way by this situation and many of the staff had to give days of their time in work connected in some way with this invasion.

WORK WITH FRESHMEN STUDENTS

The Dean and the Secretary have, during the year, given much of their time and thought to the freshmen in the College and their problems. That something has been accomplished is shown by the exceedingly low freshman mortality in this College. A new freshman "experience blank" which was designed and put into use for the first time this year has been of great help, not only to the Dean and Secretary, but to any of the teachers who cared to acquaint themselves with the former experience of the students in their particular line of work. This is part of an effort to make all of our teaching as well as our advice more personal in nature. The number of students in this College who actually "fail out" is very small. Most of the withdrawals are because the student is needed at home or for financial reasons. A very large percentage of the students in this College pay a part or all of the expense of their college education from their own earnings.

PERSONAL ACTIVITIES OF THE DEAN

The call for outside addresses yearly becomes more and more of a burden, when added to the administrative duties on the Campus. The Dean filled about seventy-five speaking engagements in the state during the year, and has spent untold hours on special committees and in conferences, all of which consume time that he would like to devote to his students. In spite of these engagements he feels that he has had more actual contacts with the students this year than in any previous year of his administration. The All-Agricultural Council has been a great help to him in making these contacts possible.

The details of the activities of the department in the College will be found to be rather adequately presented in the reports which follow.

Respectfully submitted,

ALFRED VIVIAN, *Dean.*

EXTRACTS FROM THE REPORTS OF DEPARTMENTS

DEPARTMENT OF AGRICULTURAL CHEMISTRY

RESEARCH

Two students majoring in Agricultural Chemistry completed the requirements for the Ph.D. degree at the end of the summer quarter 1926.

Mr. C. H. Hunt's research was a study of the effects of fertilizers on the vitamin B content of wheat grain. Phosphates applied to the experimental plots at Wooster, Ohio, had a marked effect in increasing the vitamin B content, while other fertilizers had no noticeable effect. Mr. Hunt is now research assistant at the Ohio Agricultural Experiment Station, Department of Animal Nutrition.

Miss Ruth Johnston conducted research on the physical chemistry of fruit pectin. Among other things, she found that pectin can be precipitated from solution by passing a direct current of electricity through the solution, the pectin being deposited on one of the electrodes depending on the acidity of the solution. Miss Johnston is now Assistant Professor of Chemistry at Wellesley College.

Mr. Charles D. Dunlap completed the work for the M.Sc. degree at the end of the winter quarter. He had for his problem of research "The Effect of Cellulose in Rations Upon Their Digestibility." He found that digestibility of protein, fat and nitrogen free extract of rations is not affected noticeably by the amount of cellulose present. The health of pigs appeared best and their growth was most rapid when there was 5 per cent of cellulose (paper) in the ration. With 10 per cent of cellulose (paper) the ration was so bulky that the consumption of nutrients was reduced. With a low cellulose ration (corn meal and skim milk), there was some difficulty with constipation and growth was somewhat slower than when 5 per cent cellulose was fed.

Mr. R. C. Burrell, Mr. E. F. Almy, and Mr. J. F. Lyman of the departmental staff have continued their respective investigations in addition to directing the research of their students.

The department has maintained a rat colony of about 100 animals that have been used for the study of nutritional problems.

PUBLICATIONS BY MEMBERS OF THE DEPARTMENT

Vitamins. J. F. Lyman, Bull. 54, Ohio State Univ., Extension Service.

Vitamins in Diets for the Sick, Address, Ohio Hospital Dietitians Assoc. To be published in the Journal of the Association. J. F. Lyman.

Milk the Health Giver. The Jersey Bulletin. March, 1927. J. F. Lyman.

AGRICULTURAL EDUCATION

RESEARCH

Considerable progress has been made in our research program this year. Last fall the state supervisor, Mr. Fife, in cooperation with Mr. A. P. Williams of the Federal Board asked our assistance in planning a research program which would enable him to set up a ten-year program in vocational education. As a result of this we outlined four problems.

1. A study to determine the number of potential vocational departments in the state, that is, the number of rural schools having sufficient enrollment of farm boys, adequate rural territory and tax duplicate to maintain a department of vocational agriculture. Questionnaires were sent out to eleven hundred superintendents from the State Department of Education. The tabulation and analysis of these data will soon be completed.

2. A study of "teacher load." Teachers of vocational agriculture engage in a great variety of activities. No study had ever been made of the amount of time devoted to each of these activities, such as classroom teaching, direction of project work, community service, etc. One hundred and eighty teachers of vocational agriculture were asked to keep a detailed time record of their activities for two one-week periods during March and April of this year. This gave us a composite cross section of the teacher's activities at this time of year.

3. A study of the potential part-time students in rural communities. One hundred teachers were asked to make an intensive survey of the number of potential part-time students between the ages of sixteen and twenty-five who were not in school. Part-time and evening courses are considered a very definite part of the program of vocational agriculture in rural

communities and it was thought that data of this nature were needed. Complete data were received from ninety-two teachers.

Two graduate research assistants were appointed to direct these studies. Mr. A. A. Lewis was appointed to take charge of the part-time survey and Mr. C. F. Tossey to study the "teacher load." Some of our advanced students were employed to tabulate the data on the first problem. This is the most extensive program of research which we have attempted and we are quite sure that it will give the state supervisor a very definite basis for setting up a forward looking program in vocational agriculture for the state of Ohio.

4. Professor Nisonger has just completed a study of the number of students by classes in the College of Agriculture who are majoring in Agricultural Education. These data were also compared with other institutions from which teachers are obtained each year. This study also included data on the number of teachers trained in this state as compared with those brought in from other states. Also data on the average tenure and teacher turnover in this state as compared with other states. This study should give us a basis for planning a program of Agricultural Education for the future.

AGRICULTURAL ENGINEERING

RESEARCH

Professors McCuen, Reed, and Silver have devoted a great deal of their time to the continued study of Corn Borer Control with machinery.

Professor Potter has been reorganizing the work in Household Equipment. A number of new pieces of equipment have been purchased to enable research work to be done along this line.

Professor McCuen and Mr. Hess have continued working on the Rural Electrification project and Mr. Hess as Special Investigator has obtained some very interesting and valuable data which will be published in the Third Annual Report of the project.

Mr. Stahl has devoted of his spare time on a problem relating to the cost of farm buildings or the price a farmer can afford to pay for his buildings and receive a satisfactory return on the investment. Certain predicting data are plotted and in next year's work he hopes to obtain the supporting data. This problem will be continued cooperating with the Rural Economics Department.

Mr. Silver and Professor McCuen spent the harvest season working with the first combine harvester used in Ohio. The work of 1926 was only a preliminary study preparatory to the 1927 study. Much interest is manifested in this new labor saving machine.

Professor C. O. Reed spent a large portion of his spare time with the government officials in preparing specifications for machinery to be used in corn borer control work. The University granted him a leave of absence for the Spring Quarter and he now has charge of engineering and maintenance for the work with headquarters at Toledo. Mr. Reed has a very hard position to fill but is handling the work very satisfactorily.

PUBLICATIONS

McCuen G. W. "Some New Developments in Motorization of Corn," A. S. A. E. Journal, April, 1927. Reprint Harvester World, May, 1927. Quoted Saturday Evening Post, May 7, 1927.

Reed, C. O. Articles in Farm Implement News relating to Corn Borer Control (unable to obtain titles and issues published).

Stahl, B. M. History of Student Branch, A. S. A. E. Journal, May, 1927. Editor Student Branch News Letter Bi-monthly.

Silver, A. E. The Combine Harvester in Ohio, Farm Journal, February, 1927.

Machinery in Corn Borer Control, Machinery and Hardware, February, 1927.

Overholt, V. Safety in Stump Blasting, News Item; Advantages of Drainage, News Item; Items of Construction, News Item; Fruit and Vegetable Storage, News Item.

Barden, R. D. Using Hitches That Lessens Draft Mimeograph, Information Series.

Twitchell, H. P. Hog Houses and Equipment, Bulletin 57 Ohio Extension Service.

ANIMAL HUSBANDRY

RESEARCH

The following research projects have been completed during the year and some interesting and important data, to be published later, secured.

The Relation of Type in Hogs to the Producers and Consumers Demands; an economic

study based on observations on the Columbus market, following the hogs through the processing in the packing plants and into their ultimate distribution in the trade.

The Importance of Type to the Yield of the Hog Carcass; a feeding, slaughter and cutting test of three groups of hogs representing the extreme long modern type, the extreme old fashioned short type, and the medium type.

The Effect of Fiber on the Palatability, Digestibility, and Effectiveness of Feed for Hogs, as demonstrated in the use of Filter Paper Pulp in their ration.

The Importance of Shock Corn in the Making of Baby Beef in Ohio; a study in the feed lots in the principal calf feeding districts of this state.

PUBLICATIONS

Professor Plumb's book on *The Marketing of Farm Animals* is just off the press of Ginn and Company.

DAIRY PRODUCTION COURSES

The question of more dairy production work being offered our students has been raised repeatedly by the students themselves and the dairymen throughout the state. Up to this time but one dairy production course has been given in this department while at the Iowa State College, for instance, six courses in this work exclusively are catalogued. Even the addition of the dairy breeds to be given for the first time next year, does not bring our offering up to the standard of most other colleges. Ultimately a course in Dairy Cattle Selection and Milk Production should be given, bearing on the relation of dairy cattle production to other types of live stock farming, milk secretions and the factors influencing quantity and quality, the efficiency of dairy cows and methods of developing and improving herds, and the selection of dairy cows by the score card and comparative judging methods. A course in Dairy Cattle Judging should also be listed in the bulletin under a course number and definitely described, as the dairy work appears incomplete to prospective students without this.

BOTANY

RESEARCH

Following are the problems which various members of the department have been investigating:

MR. TRANSEAU: Preparation of a monograph on Zygnemales. Freshwater algae of the Coastal Plain (with Miss Brown). Vegetation of Ohio (with Mr. Sampson). Vegetation Types and Insect Devastation with special reference to the Mexican Bean Beetle and the European Corn Borer in the Eastern U. S. (with Mr. Sampson). The Corn Borer habitats of Europe. (Abroad at present).

MR. SCHAFFNER: Revision of Field Manual of Trees. Observations on the Grasslands of the Central United States. Principles of Plant Taxonomy. A Field Manual of Ohio Plants. The Hereditary Basis of Sexuality. Study of Orthogenetic series in Taxonomy. Control of Sex-reversal in the Tassel of Indian Corn. The Flower of Equisetum. Sex and sex-determination in dicocious plants. Extraordinary sexual phenomena in plants. Sex-limited characters and allosome-linked heredity. Sex-linked characters in heterosporous sporophytes. The change of opposite to alternate phyllotaxy and related rejuvenescence in hemp by means of changed photoperiodicity. Simese Twins of *Arisaema triphyllum* of Opposite Sex experimentally induced. Spiral Shoots of Equisetum. Ginkgo a flowerless seed plant. Additions to the Catalog of Ohio Vascular Plants.

MR. STOVER: Seed treatment experiment with wheat (with Mr. Thomas and Mr. Runnels). Relation to soil temperature to Stem Smut of Rye. Relation of soil temperature and moisture to seedling blights of corn. Geoglossaceae of Ohio. Ohio Fungi. Streak disease of Tomato. Mosaic cross inoculations.

MR. SAMPSON: Vegetation of Ohio (with Mr. Transeau). Vegetation types and insect devastation with special reference to the Mexican Bean Beetle and the European Corn Borer in the Eastern U. S. (with Mr. Transeau). Plant succession in the Northeastern Ohio. More convenient methods of grading general botany students (with Mr. Tiffany).

MR. WALLER: Vegetation cover for the Miami conservancy dams. Germination of Iris seeds. Seedling stages of Iris. The geographic distribution of relatives of Maize. A textbook of economic botany. Growth of Iris on soils of measured acidity (with Mr. Gourley of the Experiment Station).

MR. TIFFANY: Algal food of fishes. New species and varieties of Chlorophyceae. Oedogonium Periodicity in the North Central States (with Mr. Transeau). Monograph of the Genus *Bulbochaete*. The Algae of Lake Erie. Monograph of Oedogonium.

MR. SAYRE: Physiology of Stomata of *Rumex patientia*. The formation of chlorophyll in different wave lengths of light. Static diffusion of water vapor through small openings. A simple method of determining bound water in plant tissues. A recording evaporimeter. Physiology of the corn plant in relation to soils and fertilizer treatments.

MISS LAMPF: The development of Maize Endosperm. Twig abscission in Cottonwood. Cork formation in Geranium. The nature and cause of Aster Yellows.

MR. MEYER: The measurement of the rate of water vapor loss from leaves under standard conditions. Studies on the physical properties of leaves and leaf saps. Seasonal variations in the physiological properties of the leaves of *Pinus rigida* and *Rhododendron maximum* with special reference to frost resistance.

Following are the problems which graduate students have been investigating under the supervision of the department:

MR. THOMPSON: Principles of intertillage of certain vegetable crops. Amino acids in celery in relation to the annual and biennial habits of celery.

MR. BORST: Life history of the soy beans as related to the date and rate of planting.

MISS SHAW: Anatomy and chemical composition of the fruit coats of *Nelumbo lutea*.

MR. THOMAS: Chemical composition of the cell walls of fungi.

MR. MAY: Physiology of the *Fusarium* disease of tomato.

MR. CAMP: Catalase activity and sex in plants. Sexual behavior in plants.

MISS MITCHELL: Hemicelluloses of seed coats.

MR. THUT: Hydrogen ion gradient in plants. Hydrogen ion concentration and rejuvenation in *Bryophyllum* leaves. Effect of the different wave lengths of light on the acidity of plants. Effect of the different wave lengths of light on the acidity of plants. Effect of polarized light on plant development.

MISS JOHNSON: The *Gastromycoetes* of Ohio.

MR. BODENBERG: Tissues involved in the transfer of minerals in plants.

MR. BLAYDES: Cobalt chloride tests of transpiration.

MR. PLYMALE: Vegetation of Wayne Co., W. Va.

MISS BROWN: Algae of the Southern Coastal Plain.

MR. MCPHERSON: Size and spacing of stomata in herbaceous plants.

MISS HENDERSON: The Mosses of Ohio.

MISS SANDS: The Hydnum of Ohio.

MISS SMITH: The *Clavoriaceae* of Ohio.

MR. GORDON: Plant Distribution in Ohio.

MRS. ESPER: A disease of *Cotoneaster*.

MR. BREWER: Chromosomes of Hemp.

MR. CLARK: Native plants used as food by Ohio Indians.

MISS MOON: Survey of plants used as sources of Alkaloids.

MR. MCCLURE: Economic plants of Southeastern China.

MR. DILLER: Relation of rubber production to environment on the Firestone Plantations, Africa.

MR. STOVER continued his research work at the Ohio Experiment Station during the summer months. Chairman of the Commencement Committee. Co-operating with the Extension Service and Experiment Station in conducting a spray service. Delivered 18 radio talks on plant diseases. Attended the International Botanical Congress at Cornell. Made the following addresses: Tomato Mosaic and Streak, Marietta, July, 1926. The Ohio Spray Service. Ohio Hort. Soc. Summer meeting, Chillicothe. Tomato mosaic, Amer. Assoc. Veg. Growers, Cleveland, Sept., 1926. Tomato Streak, Ohio Veg. Growers Assoc. Farmers' Week, Feb., 1927.

MR. SAMPSON served on the committee of Plant Institute; Committee of Publication, Ohio Academy of Science, and the Physiological Board of the Botanical Society of America during a part of the year. Worked with Mr. Transeau on the Vegetation survey in the corn borer area during the past summer. Read a paper on this survey before the general session of the Ohio Academy of Science. Taught Botany for five weeks at the Eastern Illinois State Teachers College, Charleston, Illinois. Attended the International Botanical Congress at Cornell.

MR. WALLER has continued as Treasurer of the Ohio Academy of Science. Chairman of the Research Committee of the American Iris Society. Member of the Advisory Council of the American Wildflower Preservation Society. Attended the International Botanical Congress at Cornell and the A. A. S. meetings at Philadelphia. Continuing research work on Iris during his "off quarter."

MR. SAYRE continued his research work at the Ohio Experiment Station during the summer months and again during the spring quarter.

MR. TIFFANY served as algologist, pollution survey of Lake Erie at the mouths of Ohio Rivers, for the Ohio Department of Fish and Game, August, 1926. Business manager of the

Ohio Journal of Science. National editor, Gamma Alpha Record. Collaborator, abstracts of algological literature for Biological Abstracts. Read a paper on Oedogonium periodicity in the North Central States before the Ecological Society of America at Philadelphia.

PUBLICATIONS

- TRANSEAU, E. N. The Genus Mougeotia. Ohio Jour. Sci. 26: 311-338, Pl. I-VII, 1926.
 Special Report on Corn Borer Investigations. Ohio Agr. Exp. Sta. Special Bull. Sept., 1926.
- SCHAFFNER, J. H. The Change of Opposite to Alternate Phyllotaxy and Repeated Rejuvenation in Hemp by Means of Changed Photoperiodicity. Ecology 7: 315-325, 1926.
 Field Manual of Trees, 3rd revised Ed. pp. 1-154. R. G. Adams & Co., Columbus, Ohio, 1926.
- A Remarkable Fern Habitat. Amer. Fern Jour. 16: 79-81, 1926.
 On the trail of Equisetums for Four Thousand Miles. Amer. Fern Jour. 16: 81-92, 1926.
- Simese Twins of Arisaema Triphyllum of Opposite Sex Experimentally Induced. Ohio Jour. Sci. 26: 276-280, 1926.
 Observations on the Grasslands of the Central United States. Ohio State Univ. Studies. Contributions in Botany, No. 178. pp. 56. 12 Figs. 1926.
- SCHAFFNER, J. H. Principles of Plant Taxonomy III. Ohio Jour. Sci. 26: 294-310, 1926.
 Sex-limited Characters in Heterosporous Sporophytes. Ohio Jour. Sci. 27: 19-24, 1927.
- Ginkgo a Flowerless Seed Plant. Amer. Jour. Bot. 14: 126-128, 1927.
 Additions to the Catalog of Ohio Vascular Plants for 1926. Ohio Jour. Sci. 27: 95-101, 1927.
- TIFFANY, L. H. The Algal Collection of a Single Fish. Papers. Mich. Acad. Sci., Arts & Letters 6: 303-306, 1927.
- New Species and Varieties of Chlorophyceae. Bot. Gaz. 83: 202-206. 12 Figs. 1927.
- SAYRE, J. D. Physiology of Stomata Rumex patientia. Ohio Jour. Sci. 26: 233-264, 1926.
- WALLER, A. E. Research and the American Iris Society. Bull. Amer. Iris Soc. No. 23: 13-20, 1927.
- Wildflowers of the Ohio Prairie. Wildflower 4: 1-3, 1927.
 A Prairie Park for Ohio. Bull. Nat. Parks Com. 1927.
- Most of the members of the staff have one or more publications in press. These are omitted in the above report. Publications of the research of graduate students are also omitted, since these students are usually located elsewhere before their theses are published.

DAIRYING

RESEARCH

In Dairy Manufacturing, work has been in progress to determine an accurate and rapid method for analyzing butter; and the effect of composition and overrun upon the quality and texture of ice cream.

In Dairy Production there has been a continuation of work in progress for some time, especially the value of minerals in the dairy ration, the quality of hays and the effect of sunlight and ultra violet ray upon the quality of milk.

Studies are being made of the effect of certain feeding practices upon reproduction, for uncertain breeding is a cause of great economic loss. Sprouted oats and barley, germ of wheat and germ of corn have been fed with such good results that the Department feels it important to continue this work.

Observations are being made of the effect of moldy feed, upon the production and reproduction of the dairy cow. When grain and hay cannot be properly cured, a moldy feed is often the result and this causes a disturbance in the digestive system of the dairy cow. Preserving hays with various gases has been a problem in progress during the year.

Feeding dulse and cod liver oil has become more common in the best dairy herds and the Department has been closely observing the results.

OFFICIAL TESTING

With the object of raising to a higher standard the average excellence of the dairy breeds and securing an authenticated and permanent production record to which reference can be

made in selecting animals for breeding purposes, the cattle clubs or breed associations have established a Register of Merit and Advanced Registries.

While this system does not ignore the value of conformation as indicated by the score cards, it is based principally upon the individual excellence of the animal as measured on the records it enables him, as also the owner of grades or common cows, to select a bull with heredity such as is most likely, when mated with his cows, to increase the productive capacity of his herd. Many owners of grade and mixed herds will not use anything but a sire of advanced registry breeding.

The system enables the breeder desirous of improving his herd to ascertain the true dairy ability of his cows, not only to his own satisfaction but that of his customers also; while by its records it enables him, as also the owner of grades or common cows, to select a bull with heredity such as is most likely, when mated with his cows, to increase the productive capacity of his herd. Many owners of grade and mixed herds will not use anything but a sire of advanced registry breeding.

Official testing does more toward introducing efficiency into dairy herd management than any other one thing. This is of utmost importance since dairy cows provide a continuous and essential supply of raw material toward the preservation of the race and efficiency has a great influence in maintaining a reasonable price level.

Authenticated tests are tests periodically supervised by a representative or approved agent, known as the official tester, who is appointed by the Dairy Department of the State Agricultural College in each state. The supervisor certifies to the weight of the milk and per cent of butter fat that it contains, as determined by the application of the Babcock test to a sample of milk from every milking during the time that a cow is under the representative's official supervision, and in which the butterfat is computed from the percentages thus obtained.

The Ayrshire Breeders Association has established the Ayrshire Herd test which is available to both grade and pure bred animals. When a herd is entered in the test every cow with the exception of registered animals of other breeds, which has ever freshened, is included without reference to period of lactation. The test is for a period of twelve months and breeders are urged to enter their herds with the intention of continuing them in the test year after year. The other breed associations are now considering similar tests.

The Herd Test is based upon a one day inspection each month, with such additional surprise tests as may be deemed essential for authentication. The test is conducted in much the same way as the regular official test.

The breed associations keep all records and exercise a general supervision over the official testing. Students supervise many of the tests, which not only gives them employment but a wonderful opportunity to gain practical knowledge of dairying, which is possible in no other way.

The amount of official testing done depends to quite an extent upon economic conditions which have been adverse for the farmer during the past few years. The decrease in the amount of testing has been universal, due to many causes. Probably the three principal factors are the high cost of labor, the high cost of feed and the campaign against tuberculosis. However, during the past year and especially in the last few months, the amount of work has been gradually increasing and indications are that it will soon return to the normal amount.

During the year 68 supervisors have been employed. The majority of these men gave their entire time to the work although a number of students were employed to test only part of the time and some of the work was done by testers for cow testing associations.

A total of 185 tests of cows were conducted for periods of not less than seven days and the following numbers of two days' tests were made for the different breeds:

Jerseys	2,685
Holstein	2,755
Guernsey	1,653
Ayrshire Herd	55
Brown Swiss	143
Shorthorn	91

Eighty-four retests and check tests were made during the year. The first forty-pound record made in Ohio was made by the Holstein-Friesian cow, Ona Clothilde Wayne.

The highest Guernsey record was made by Paulkin of Shadylawn Guernsey Farm, a cow that produced in the year 18,218.6 pounds of milk containing 912.3 pounds of butterfat. No records were broken during the year in any breed, although a number of very high records were made.

FARM CROPS

RESEARCH

Most research projects in the subject of farm crops are of a long time nature. Only one crop can be grown in a year and in case of biennial and perennial plants two years usually

are required for a single generation. It is possible however, for an investigator to have several projects under way at once. Space in this report permits little more than a listing of the projects now in progress.

The field experimental work of the department will profit greatly by a change made in location of some of the plot work in the spring of 1927. A twenty acre tract on the Phenniger farm that has been used for certain plot experiments for the past four years is so lacking in uniformity that it has been difficult to secure results of value. Dean Vivian very kindly consented to an exchange of this land for a similar sized tract on the Sells farm fronting on the Flenniken pike. The soil of the new land is much more suitable for plot experiments and it is more conveniently located.

The department now farms 55 acres of land. Nearly all of it is used for definite field experiments with the exception of a few acres that are too ununiform to be suitable. This land is used for increasing new varieties.

PROJECTS

J. B. Park—Mr. Park's major interest is in plant breeding and genetics. During the past year work was done on the following projects:

1. A genetic study of the soy bean mottling.
2. Sweet clover breeding. The object is to obtain vigorous growing, late maturing strains of biennial white so as to prolong the pasturing season.
3. Genetic studies of aberrant forms in Fulghum oats, (with H. L. Borst).
4. Barley breeding by hybridization.
 - (a) for a productive smooth awned, hulled type.
 - (b) for a smooth awned hullless type.
5. Genetic studies of barley:
 - (a) Factors governing the lemma appendages.
 - (b) Inheritances of secondary hoods.
6. Shattering of small grains in relation to the use of the combine harvester, (with H. L. Borst).
7. Growing corn and soy beans as associative crops.

The work on shattering of small grains was started in 1926 because of a growing interest in the use of the combined harvester in Ohio. There is urgent need for information on the amount of shattering that occurs when grain becomes fully ripe before cutting and of varietal differences in this respect. Combine harvesting will make a demand for varieties that do not shatter readily, an order for the plant breeders to fill.

C. J. Willard—Mr. Willard's researches have to do with the forage crops. The projects which he has worked on during the years are:

1. Comparison of biennial white sweet clover with other legumes as hay and green manure including a study of their development and particularly of their root systems.
2. Cultural tests with biennial sweet clover.
3. A study of the effect of clipping first year clovers and alfalfa at different dates.
4. A comparison of grasses and grass mixtures for local conditions.
5. Cooperative red clover strain tests.
6. A study of annual forage crops and mixtures.
7. Studies in hay curing.
8. A comparison of varieties of alfalfa, especially Grimm and common.
9. A study of the time of cutting alfalfa and the effect of cutting at different times on the root reserves.

The sweet clover studies were extended over four years. Three publications have been made from the data secured and a fourth is in press.

H. L. Borst—Projects.

1. Effect of cultivation on yield of corn, on soil nitrate production and on soil moisture, (with George McClure, Dept. of Soils).
2. Life history studies of two varieties of soy beans and the effect of different rates and dates of planting. Five years' work has been done.
3. A study of border effect in small grain variety tests.
4. Breeding wheat for resistance to stem rust and the smuts, and for milling and baking quality.
5. Breeding oats for disease resistance and desirable color.
6. Variety tests of wheat.
7. Variety test of oats and barley, (with J. B. Park).
8. Variety test of soy beans, (with J. B. Park).
9. Wheat breeding nursery, (with J. B. Park).
10. Oats and barley breeding nursery, with J. B. Park).

11. Soy bean breeding nursery, (with J. B. Park).
12. Relative adaptation of varieties of wheat, oats, and barley to conditions in different parts of Ohio.

M. T. Meyers is responsible for the corn breeding projects. His work is cooperative between the University, the Ohio Agr. Experiment Station, and the U. S. Dept. of Agriculture.

The corn projects are:

1. Breeding improved varieties by selection in self-fertilized lines, both field corn and sweet corn.
2. Determination of the characters that will aid in control of the corn borer and production of such varieties.
3. Rate, date of planting, and variety test.
4. Life history studies.
5. Genetic studies of brown pericarp.

The corn experiments occupy 16 acres of land. In project No. 1, 1380 selfed lines of corn were grown and approximately 10,000 self pollinated ears were obtained. Of the 100 first generation crosses tested for yield in 1926, several were superior to our best commercial varieties. The parent pure lines are being increased and some crosses will be made in quantity in the season of 1927.

PUBLICATIONS

Research Papers—C. J. Willard.

1. An Interesting Root System—Kudsu in Ohio. *Journal of the American Society of Agronomy*, Vol. 18, pp. 725-727. August, 1926.
2. An Experimental Study of Sweet Clover. Now in press as a Bulletin of the Ohio Agr. Exp. Station.
3. The Effect of Cutting First Year Sweet Clover on Its Value for Pasture and Soil Improvement the Next Year. In press, will appear in bi-monthly Bul. of the Ohio Exp. Station, July-August, 1927.

CROP TALK

- Eliminating Wheat Diseases—W. E. Hanger.
 Lawn Grasses and Lawns—C. J. Willard.
 Storing Farm Seeds—M. T. Meyers.
 The Relation of Sunshine to Crop Production—Earl Jones.
 Is the 100-Bushel Corn Yield Worth the Cost—J. A. Slipper.
 Spring Wheat—W. E. Hanger.
 The Cost of Producing Sugar Beets in Northwestern Ohio, 1925—K. H. Myers, Rural Economics Dept.

OTHER CONTRIBUTIONS

- W. E. Hanger and J. S. Cutler: Corn Growing in Ohio, Extension Service Bulletin.
 E. P. Reed and C. J. Willard, Alfalfa, Bul. 58, Ohio State University Agri. College Ext. Service, pp. 1-36.
 C. J. Willard, The Country Gentleman: The Christian Science Monitor: The Farm Journal: The Breeders Gazette: Hoards Dairyman: Wallace's Farmer: The Ohio Farmer: The Ohio Stockman and Farmer.
 H. L. Borst. The Ohio Farmer.

FARM OPERATIONS

REPORT UNIVERSITY FARM 1926

During the year 1926 about the same land was operated by the Department of Farm Operations as was used the previous year. Some additional land was rented from Henry Hess on a cash basis of seven dollars per acre and about sixty acres from E. E. Doty on a half share basis. This land was used for production of more crops and feed for the Animal Husbandry Department. Weather conditions up until the middle of July were very favorable for crop production, but after that our losses in crops being harvested were very large.

No important changes in the layout or in the equipment of the farm were made in 1926. Not much repair work was done on buildings except those repairs that were necessary, the time for such work being largely taken up in moving the poultry buildings from the old poultry plant location along the river, to the new location on the Mamie Hess Farm.

A wire fence was built along Starr Road from Lane Avenue to the north line of the Waterman Farm and brick posts were constructed for building a wire fence along Starr Road on the Phéneger Farm, which fence will be built in 1927. They also built about a hundred and

twenty rods of wire fence on the south side of the Waterman woods pasture from the Starr Road to the road leading out to Lane Avenue from the Waterman Farm.

Out ditching machine was busy practically the entire season putting in drainage in the new poultry plant location. But in the Fall and Winter we were able to get in about two hundred rods of large tile on the south side of the Waterman Farm, and about five hundred rods of 4-inch tile in the ten acres known as the Hartman Track lying on the south side of Lane Avenue, west of the Sells Farm. We purchased about nine carloads of tile with the balance of our drainage appropriation left after buying tile for the poultry plant, and will put this in the south half of the Waterman Farm during 1927.

During the year the Animal Husbandry Department has put two teams of brood mares into service and are hauling practically all of the manure from the Animal Husbandry buildings to the fields where we want to use it, or to piles at designated places. This has relieved our farm teams of a large amount of hauling, so that we are able to do more crop work with them. The manure from the Fair Grounds was again hauled to the University Farm in 1926, about one half of it going to the Horticultural Department. We have usually supplied some help and tried to cooperate with the Fair Management in handling this manure, but I am not certain that it is a highly profitable operation for us to pursue.

We have not purchased any machinery during the year except one Thomas Tractor Mower. Our farm shop and the farm barn has been equipped with various pieces of shop equipment from various sources, and we have been able to keep our machinery in better repair than in times past. During the bad days we have been able to clean up and repaint most of our machinery and equipment including all artotors and wagons. We expect to continue this and try to keep our equipment in better condition in future years.

The line supplying the electric current to our shop has been a wonderful help to us and has caused our men to be better satisfied with their working conditions than ever before.

It has been necessary to purchase an old truck and build a trailer out of it to transport our equipment to our more distant fields. We will have to purchase some additional equipment within the next year or two if we are to maintain our present standard of efficiency in operation and probably raise it some.

A bathroom outfit was installed this year at the Kautz house occupied by Mr. Charles Pugh and is working very satisfactory, so we are informed. We are excavating the basement of the Waterman house, making it 18 inches deeper and cementing the floors preparatory to getting this house into a more modern condition. We asked to have several of the houses on the farm wired for electricity but the estimates were said to run too high.

The crops produced on the farm and their distributions are shown in the tables accompanying this report. The yields of all crops were largely influenced by the weather conditions during the last half of the year. Large losses in hay crop being the most noticeable. The wet weather seemed to cause our corn to mature very slowly, with the result that we had a high percentage of spoiled corn. We were unable to cut about eighty acres of our corn, and half of that husked from the stock late in November spoiled quite badly in the cribs. Our corn yields were about the largest that we have ever had, but it seems that practically one-third of it was wasted because of the wet weather.

We have tried during the year to work with the other departments interested in the operation of the farm, and feel that our connections have been reasonably satisfactory. An effort was made to help the Poultry Department to get established in its new location, and teams and men were freely used at farm expense to help them out. The Animal Husbandry Department purchased considerable hay in the field which we have hauled for them. The Horticulture Department has needed considerable extra help and a great deal of team work has been done for the Botany and Zoology Departments.

HOME ECONOMICS

FOODS AND NUTRITION DIVISION

The foods and nutrition courses have continued under the chairmanship of Miss McKay, who has in addition directed a number of very interesting research problems.

The fundamental courses for students majoring in home economics have been continued and one elective course has been added. The work of the foods and nutrition division is closely related to that of other divisions of the home economics department and to other departments of the University. For example, the meals for the children in the home economics nursery school have been planned and supervised and nutrition problems arising in the school have been dealt with. Students wishing to use their nutrition information as institution managers or as teachers have had cooperative sequences planned for them. Instruction has been given to underweight women students in the Department of Physical Education and advice

on nutrition problems given on request to many others. A cooperative course has been given this year for students in social administration.

TEXTILES AND CLOTHING DIVISION

In spite of the fact that there was considerable change in the personnel of this division the work has gone forward in a progressive way, and students are gaining much from the courses offered. Miss Ryan has continued to act as chairman.

HOUSEHOLD MANAGEMENT DIVISION

Mrs. Walker has continued to be in charge of the courses in house furnishing and household management. She has also taught a course in the buying of textiles and house furnishings for advanced home economics students and has directed a number of individual problems in household management and textiles. The popularity of the elective course called Elements of Homemaking given for non-majors may be regarded as an indication of the desire of the general student body for service courses in home economics.

CHILD DEVELOPMENT AND HOME HYGIENE DIVISION

The administration of courses in child care and home hygiene have remained under the direction of the chairman of the department. It is very greatly hoped that a specialist in child training may be added to the staff to give instruction in the required course in child care; to supervise the work in child care laboratory, the home economics nursery school; to provide an opportunity for studying special problems in connection with child development and to offer elective courses in parental education.

The home economics nursery school which was established in February 1925 as a laboratory, has been continued in a modest way and has been of decided value to the students even though it has not yet been developed in all its possibilities.

The department is grateful for the continued assistance both in instruction in the class room and in physical examination of the children in the nursery school from Dr. Earl H. Baxter, a member of the staff of the Department of Pediatrics. The cooperation and assistance of Dr. Francis N. Maxfield of the Department of Psychology is also much appreciated.

INSTITUTION MANAGEMENT DIVISION

During the year the institution management division has been interested in the equipment of the Pomerene Hall Cafeteria, which was last year assigned by the Board of Trustees of the University to the Home Economics Department as a laboratory in institution management. The cafeteria was not opened during the year, but is expected to be ready for the Autumn Quarter of 1927.

The courses in institution management are being received with much favor and graduates who have elected the sequence are much in demand.

The institution management division has continued to be under the chairmanship of Miss Findley.

HOME ECONOMICS TEACHER TRAINING DIVISION

At the beginning of the year owing to the resignation of Mrs. Adams, Miss Alice Donnelly was given charge of the teacher training courses. The work of the division has progressed in a very gratifying manner under her direction.

There has been an increase in the interest shown in qualifying for vocational home economics teaching on the part of seniors who are enrolled in teacher training courses. While it is not possible for them all to be assigned to vocational positions, it is gratifying to have them realize that this training adds materially to their preparation to teach home economics in any school. There were 68 seniors enrolled during the current year in the course, Supervised Home Economics Teaching, and of these 42 are eligible for the Provisional Vocational Home Economics certificate. This is 61.7 per cent of the group as compared with 50.7 per cent who qualified for the vocational work last year.

The students who are desirous of preparing to teach vocational home economics under the Smith-Hughes Law are assigned to do their supervised teaching in the same three student teaching centers, which have been in use for several years past. These centers are located in neighboring high schools, where a member of our teacher training staff acts as director of vocational home economics and as critic teacher for our students. Each of these centers has been used continuously this year for student teaching and there was far too heavy a load, especially during the Spring Quarter. Even with these crowded conditions it was not possible to place in vocational training centers all of the students who wished to prepare themselves for vocational home economics positions.

At the beginning of the Spring Quarter a request was, therefore, made that home economics students in teacher training classes in the College of Agriculture be permitted to teach in the general home economics classes in the public schools of Columbus. The request was approved by the superintendent of schools and splendid cooperation was given by the assistant superintendents, the supervisor of home economics and by the regular teachers, although at the time a full quota of home economics student teachers had been assigned to the Columbus schools from the College of Education. It was suggested that in the future the load be distributed more evenly throughout the school year. This plan seems possible and it is hoped that conditions will be much better next year. It may be necessary, however, to add a vocational student teaching center some time in the near future if the students wishing to obtain the vocational home economics certificate continues to increase.

The plan of assigning student teachers to classes in settlements for a part of their work has been continued, and some work has been begun in organizing classes in the day nurseries.

The resident home economics teacher training staff has been increased this year by having one full time worker who has had experience in one of the vocational student teaching centers. Since the total number of lessons taught has been increased from thirty to fifty according to the new requirement of the State Bureau of Certification, this one additional instructor was not sufficient and an assistant was employed to help with supervision during the Winter and Spring Quarters.

The projects which have been carried on by the teacher training staff this year were varied. Some of the newer methods of teaching have been tried and found to be successful in throwing more responsibility on the pupils for their own success. Revision of the high school course of study which is constantly in progress has been carried on during the year. In all three training centers the critic teachers have stressed in their teaching, child development and right attitudes in family and social relationships. This is true of the home projects as well as the actual class room work.

Very close cooperation is enjoyed between the home economics teacher training division and the State Department of Education in planning and carrying on the training of teachers, in the placement of graduates and in the supervision of their work in the field. Meetings, which were attended by the State Supervisor of Vocational Home Economics and her assistant, the State Director of Teacher Improvement, and the critic teacher staff, were held throughout the year on the first and third Mondays of each month, in order to discuss the various problems which arise and to decide upon general policies.

During the summer of 1926, a five day conference for all vocational home economics teachers of Ohio was held in Campbell Hall, and was very well attended. The purpose of the conference was to make definite plans for the year. Since that time, there have been five regional conferences held throughout the state, at which the present problems of the teachers in the field were discussed and suggestions given for future work.

RESEARCH

Owing to the heavy teaching load and the unusual extra curricular duties of the home economics staff, there is little time for research except as provided for by special funds.

During the years 1925-1926 and 1926-1927 the department has been fortunate in having a cooperative plan with the Ohio Agricultural Experiment Station whereby research in home economics may be carried on at the University under Purnell funds. The following research projects having thus been provided for have been carried on during the year 1926-1927 under the direction of Miss McKay.

Basal Metabolism of Young Women from 14 to 20 Years of Age.

Day by Day Variation in Basal Metabolism of Young Women.

A Study of Seasonal Variations in Growth of Pre-School Children in Ohio.

Also under the same provision a research project called A Study of the Cost of Family Living on Ohio Farms has been carried on cooperatively by the Departments of Rural Economics and Home Economics under Mr. Lively and Miss Lanman.

Two students have completed their work for a master of science degree. The subjects of their theses are as follows:

The Influence of the Electrostatic Properties of Acetate and Viscose Rayons in Underwear.
The Effect of the Use of Salt in Cooking Certain Vegetables.

PUBLICATIONS

Publications and articles were written by the following members of the resident staff in home economics:

FAITH R. LANMAN—Factors Affecting the Minimum Requirement for a Degree in Home

Economics. Proceedings Fortieth Annual Convention of the Association of Land-Grant Colleges and Universities. 1926.

"Purnell Fund at Ohio State University." The Candle of Phi Upsilon Omicron, Vol. XI, 1926.

Revision: Handbook of Recipes. Lanman 1909; 9th ed. 122 pp. 4 ills. 1926.

"Home Economics Calls You." The Agricultural Student. Vol. XXXIII. 1926.

HUGHINA MCKAY—The Phosphorus Intake of Pre-School Children as Shown by a Dietary Study Made by the Individual Method. The Ohio Agricultural Experiment Station, Bulletin 400, 1926.

Three Meals a Day. Agricultural Extension Service, Bulletin, The Ohio State University, Vol. XXI, No. 6. 1926.

"Health and Nutrition." Report of National Federation of Day Nurseries. 1926.

GRACE G. WALKER—"House Furnishing." Agricultural Extension Service Bulletin. The Ohio State University. (in press).

"The Living Room." Agricultural Extension Service Bulletin. The Ohio State University. (in press).

"Buttons." Candle of Phi Upsilon Omicron. Vol. XI. 1926.

ALICE M. DONNELLY—"Home Economics." Published as a part of a volume of Ohio State University Studies. Bureau of Educational Research Monograph entitled, "Supply and Demand in Teacher Training," by B. R. Buckingham. Vol. II. 1926.

ELSIE S. MINTON—The Effect of the Use of Salt in the Cooking of Vegetables. Ohio Agricultural Experiment Station Bulletin. (in press).

ELIZABETH COOLEY—"What Meats to Buy for Dinner." The Agricultural Student. Vol. XXXIII. 1926.

OTTILIE E. ROHE—"The Nursery School at Ohio State University." The Candle of Phi Upsilon Omicron. Vol. XI. 1926.

HORTICULTURE AND FORESTRY

RESEARCH

Prof. Montgomery has an ambitious outline of experiments planned in connection with the new vegetable garden. These are mostly in the nature of plot work and are designed to run through a series of years.

Prof. Charles and myself have two projects under way for which we hope to steal enough time to make a slight impression on, to say the least. The first has to do with the effect of cloudy weather upon fruit bud differentiation. And the second, with the tolerance of fruit trees to certain chemical substances. With this last project we have enlisted the aid of Prof. Hollingsworth of the department of chemistry. This selection was made because the professor is an enthusiastic horticulturist and because of this interest he is willing to give us an unusual amount of time.

Mention was made in my last report of the work being carried on by Mr. Reiling in connection with the condensation and pasteurization of fruit juices with especial reference to retaining flavor and aroma. You will be interested to know that Mr. Reiling has patented his processes and has made an unusually favorable connection with the Moores & Ross Company of this city where commercial development is being undertaken.

The processes have very wide application so the future appears to be bright for Mr. Reiling.

PUBLICATIONS

Again Prof. Hottes is the only member of our staff who has managed to turn out anything of importance. Others of our number write occasional popular articles for horticultural journals, society reports, radio talks and so on. Practically all such work must be done at night.

About Wild Flowers, Extension Bulletin. Hottes.

How, When, Where and What to Plant, for Springfield Nurseries. Hottes.

1001 Garden Questions Answered. A. T. Del A. Mare Co. New York, Hottes.

Weekly article for Ohio State Journal and contributor to garden magazines.

POULTRY HUSBANDRY

POULTRY DEMONSTRATION FARM PROJECT

1. The chief problem is that of getting in each community at least one poultryman or farmer who will conduct his poultry enterprise in such a manner as to provide a good demon-

stration. This will require following the recommendations of the poultry extension department. This demonstrator should, whenever possible, be the poultry leader of the community, the person to whom the people can go to for information and bulletins. It is felt that this is the greatest need; hence more time was put on this project than on any others.

2. The ultimate goal is to have in each community one or more good demonstration farms. The goal for the year was to secure as many good demonstration farms as possible and carry as many as possible through the completion of the year's work.

3. Monthly information letters and reports were sent to each cooperator, together with seasonal bulletins as published from time to time. At least two meetings were held during the year with the cooperators in each county in which purely subject matter material was discussed. At the end of the year a summarization meeting was held when the records for the year were gone over, each person analyzing his or her record on specially prepared analysis sheets, and the factors which govern profits discussed in detail. Each cooperator was visited by the specialist on his or her place, in company with the county agent, when each cooperator's problems were discussed with the idea that conditions and results could be improved, thereby making each cooperator a better demonstrator. At the end of the production year each cooperator was sent a bulletin giving the results of the records from a standpoint of profits. In this bulletin factors affecting profits were thoroughly discussed, based on the records for the year.

The specialists prepared the project outline in detail and furnished the same to the county agents. The agents then secured the cooperators. All contact with the cooperators was through the agents. All reports, information letters, bulletins, and meetings were handled through the agents' offices.

3. As described above all contact with cooperators was through the county agents. They secure the cooperators, relay all information from the specialists, arrange for meetings, etc. Practically all poultry work in Ohio is done by the county agents, except in one or two counties where the club agent assists.

There were 1033 demonstration farms started November 1, 1926, located in 66 different counties. This is an average of 15.6 per county. This was as many, or more, than could be properly supervised, so that it is felt that the results were entirely satisfactory. A survey of demonstration farms in Ohio showed for each demonstration farm five people improved their practices each year.

4. So far as the results of the cooperators were concerned the outcome was very satisfactory. The egg production per hen in Ohio is supposed to be about 70. The average for Allen County, as shown by a survey of the extension marketing specialists, is 75 eggs per hen. The average as shown by the U. S. D. A. figures for Medina County is 67 eggs. The average for the state for all demonstration farms completing the records was 140.3.

RURAL ECONOMICS

RESEARCH

The following old projects have been continued:

No. I. Cost of Producing Farm Products in Greene and Medina Counties.

Summarization and analysis of five years' cost record on twenty farms in each. Medina and Greene counties was continued. Two bulletins, one on Livestock Costs in Greene County and one on Dairy Costs in Medina County have been completed and presented for publication. A Fourth on "Crop Costs in Medina County" will be forthcoming.

No. II. Farm Cost Accounts in Putnam County.

This project has been continued as reported last year. It is the present plan to continue this project up to January 1, 1929.

No. III. The History and Business Practices of Ohio Farmers' Elevators.

Work upon the compilation of the results of this study has been continued. The material should be ready to present for publication soon after July 1st. Some phases of the study will be continued.

No. IV. The Movement of Dairy Products Into and Out of Ohio.

Work upon this project has been continued and will be continued for another year.

No. V. Costs and Standards of Family Living on the Farm.

The third year of permanent household accounts have been collected. Records are now being secured from 70 families. A mimeographed report of the first two years' results has been issued. The project is being continued in cooperation with the Department of Home Economics.

No. VI. Prices and Timely Economic Information.

This project is being continued on the same basis as last year. It is hoped to expand the project next year.

The following new projects have been started:

No. VII. The Agricultural Income of Ohio.

Since January 1, 1927, Mr. Wertz has been working upon this project. It is the aim to compile for the period since January, 1920, the monthly and annual agricultural income for the state, both for the state as a whole and by regions. There has been a constantly increasing demand for this data.

No. VIII. The Relation of Appraised to Sales Value of Farm Land in Ohio.

This project was initiated in July, 1926. Mr. Moore is the worker. From statistics in the county recorder's office and in the state tax commission office data relating to the sales price and the assessed value of farm land sold during the past three years has been compiled. A report should be completed by January 1, 1928. There is an urgent demand that this data be made available.

No. IX. The Movement of Farm Population in Ohio.

This project was started in October of 1926. Eight townships have been selected, two in each of N. E.; N. W.; and S. E. Ohio. By personal visitation data will be secured relating to the extent and character of the movement of population to and from the farm. Some interesting and valuable data has already been secured.

No. X. Livestock Losses on the Cleveland Market.

This project was started in October, 1927. Mr. Jackson has been stationed at the Cleveland Stockyards. He secures data on 10% of all the livestock coming into the yards, relating to the extent, character and causes of loss. These records will be continued until the expiration of one year. The Cleveland Union Stockyards is cooperating in the study to the extent of paying one-half of Mr. Jackson's salary.

No. XI. Livestock Trucking in Ohio.

This project was initiated by Mr. Henning in January. The study will include the development and present status of livestock trucking. Special attention will be given to changes coming about in marketing organization due to the advent of the truck. The Ohio Farm Bureau Federation is actively interested in the project.

The following research projects have been completed:

No. I. The Movement of Ohio Livestock to Market.

Manuscript in the hands of the Experiment Station.

No. II. Rural Health Resources of Ross County, Ohio, and the Extent to Which They Are Used.

Manuscript in the hands of the Experiment Station.

It is felt that a beginning at least has been made in a research program. Further explanation, however, is hoped for. During the development of the work in the past two years major emphasis has been given to projects in marketing. The tax study should be expanded. A study of land utilization in Ohio should be got under way.

PUBLICATIONS

During the year members of the department have supplied articles for daily and weekly papers through the news service of the extension department. In addition to this there has been contributed at least one article per month for Fax.

J. I. FALCONER. Thirty articles, Bi-Monthly Bulletin of the Agri. Exp. Station. "The Cost of Producing Corn, Wheat, Oats, and Hay in Greene County, Ohio." Ohio Agri. Exp. Station (with J. P. Dowler). "The Influence of the Ohio Poultry Producers Cooperative Association on the Local Price of Eggs," (with V. R. Wertz and J. P. Kendrick).

C. E. LIVELY. "The Costs of Living on Twenty-five Ohio Farms." The Agricultural Extension Service.

SOILS

RESEARCH

Field plot experiments under way are as follows:

1. Legumes as related to nitrogen economy in soils.
2. Manure as related to nitrogen economy in soils.
3. Phosphate rock as related to nitrogen economy in soils.
4. Potash as related to nitrogen economy in soils.
5. Sulfate of ammonia as related to nitrogen economy in soils.
6. Acid phosphate as related to nitrogen economy in soils.

7. Limestone and sulfur (reaction) as related to nitrogen economy in soils.

8. Truck crop experiments.

In addition to the above experiments, which involve 280 each, one-twentieth acre plots of the following research is under way:

CYLINDER EXPERIMENT

In this experiment the ultimate aim is to have on the University Farm two foot cylinders filled with the important soil types gathered from all sections of the state. Four cylinders of each soil type are being provided. These are planted each year in a four year rotation of corn, oats, barley, and clover. They are of value in demonstrating to students the characteristics of the soil types in the state as well as for comparing in a research way the relative productivity of the different types.

To date the following soil types have been collected and placed in the cylinder:

1. Cincinnati silt loam.
2. Clermont silt loam.
3. Cory silt loam.
4. Miami silt loam from Germantown Farm.
5. Bellefontaine silt loam.
6. Muskingum silt loam (formerly called Dekalb).
7. Monongahela silt loam.
8. Westmoreland silt loam.
9. Upshur clay.
10. Wooster silt loam.

PERMANENT GRASS PLOTS (Pasture)

This project is to determine the effect of different fertilizers on the types of grass that naturally come in after a number of years of treatment.

PERMANENT GRASS PLOTS (Lawns)

This project is similar to the above except that the treatments are so designed as to favor as far as is known the grasses and bents which are desirable as lawn flora. This experiment is just being laid out.

TREBLE-SUPER-PHOSPHATE PROJECT

This is being used by Mr. Thrash as a thesis project.

SMALL PLOT GROUPS

This experiment is just being started. The purpose is to investigate the effect of crop sequence on the yield and growth of plants. Six groups of eight crops each will be included in this test, and will be grown on small plots 1/2000 acre in size.

Arrangements are now completed to transfer all the above research program to the control of the Department of Agronomy of the Ohio Experiment Station. In addition to assuming the carrying on of this program, it is the plan to add Mr. Barnes to the research staff to carry on supplemental laboratory studies on a three quarter basis, and to engage in teaching in the college one quarter of each year. Mr. Thrash will continue to direct the field research on a three quarter basis and will assist with the teaching in the college for one quarter.

NATIONAL LIMESTONE FELLOWSHIP

A fellowship for the purpose of investigating the subject of fineness of agriculture limestone as related to its efficiency was established four years ago for a five year period. During the past year the appointment to this fellowship has been held by Mr. Lilburn Allen, who has been investigating rates of diffusion of limestone in soil under varying conditions. The fellowship will be continued during the next year with Mr. Allen still carrying on the investigation.

ZOOLOGY AND ENTOMOLOGY

RESEARCH

The various members of the instructional staff have been too much busied with teaching, committee work, etc., to have much time for research, so our combined accomplishments in this field have been woefully limited, much to our regret.

Professor Raymond C. Osburn conducted a program of research for the State Division of Fish and Game on "Pollution in the Western End of Lake Erie" during the months of

August and September, 1926. This was done with the assistance of Professor R. V. Bangham, Professor L. H. Tiffany, Professor H. R. Eggleston, Mr. B. P. Hanan, and the use of the state boats. The results were issued and distributed in mimeograph form by the Division of Fish and Game (1000 copies).

Professor Osburn has also completed a report on the Bryozoa of Curacao Island for publication in the Results of Doctor C. J. van der Horst's Expedition, in "Bijdragen Tot de Dierkunde", Amsterdam. He has also directed the research of various graduate students.

Research Professor Herbert Osborn has continued his studies on economic insects, particularly on Hemiptera, and spent his vacation period in Panama collecting and making studies on tropical Hemiptera. The direction of graduate research problems has occupied a large part of his time.

Professor W. M. Barrows has continued his studies on genetics and spent the Winter Quarter in Florida, where he collected spiders of that region, pursuant to the preparation of a paper on the Arachnids of Florida. He also directed the work of a number of graduate students.

Professor F. H. Kreeker continued, during the summer, his studies on the water movements of Lake Erie, and has completed for publication a paper on "The Seiches of Lake Erie." He has also directed the work of some graduate students on their research problems.

Professor D. M. DeLong continued his research in economic entomology, particularly on Hemiptera, and spent the summer in research work for the United States Bureau of Entomology on the Bean Leaf Hopper. This work will be concluded during the coming summer for publication. A considerable number of research students have fallen to his share, especially during the absence of Professor Herbert Osborn.

Professor C. H. Kennedy has produced a number of important papers during the year, dealing principally with entomological subjects, some of which have already been published, and he has had charge of the research of several graduate students. Professor Kennedy is rapidly becoming known as an outstanding research worker.

Professor W. J. Kostir has continued his work on the Protozoa and has directed the work of three graduate students in his field.

Our Instructors, Assistants and Graduate Students have all been engaged to some extent with research problems, the results of which will, for the most part, be published.

PUBLICATIONS

RAYMOND C. OSBURN. Pollution in the West End of Lake Erie, pp. 1-20, Ohio Fish and Game Division, Dec. 1926. Editor of Brachippoda, Bryozoa and Phoronidea section of Biological Abstracts.

HERBERT C. OSBURN. Founistic and Ecologic Notes on Cuban Homopters. Annals of the Entomological Society of America, Vol. 19, No. 3, pp. 335-366, Plate 30-31, Sept. 1926. Obituary Edwin A. Hartley, Journal of Economic Entomology, Vol. 19, No. 6, pp. 876-877, Dec. 1926. Reports as Managing Editor Annals Ent. Soc. Am. and Chm. of Committees in Ohio Acad. of Science and the Entom. Soc. of America. Editorial Work on the Annals of the Entomological Society of America and of the Bulletins of the Ohio Biological Survey of Ohio.

WILLIAM MORTON BARROWS. The Science of Animal Life (Now in page proof). World Book Company, Yonkers, N. Y. This book is a companion book to Transeau's Science of Plant Life. It will be published in June, 1927. Pages viii and 379. Figures 220 (including 4 maps, 57 diagrams, and 150 photos).

FREDERICK H. KREEKER. Editor, Ohio Journal of Science. As National President of the Gamma Alpha Graduate Scientific Fraternity, contributed articles to the Gamma Alpha Record, Vol. 16, Nos. 1, 2, 3, 4, 1926. Vol. 17, No. 1, 1927.

DWIGHT M. DELONG. Three New Species of Deltocephalus. (Co-author with E. D. Ball). Jour. N. Y. Ent. Soc. Vol. 34, p. 241, Sept. 1926. Further Studies of the Mexican Bean Beetle in Ohio. Proc. Ohio Veg. Growers' Association for 1926. The Genus Chlorotettix—A Study of the Internal Male Genitalia, including the description of a new species. (Co-author with O. L. Cartwright). Ann. Ent. Soc. Amer., Vol. 19, No. 4, pp. 499, 511. Dec. 1926. Graduate Training in Entomology. Gamma Alpha Record, Vol. 16, No. 4, pp. 101-104, Dec. 1926. The Oriental Fruit Moth Invades Ohio. The Agr. Student, Ohio State University, Vol. 35, No. 5, pp. 117, Feb. 1927.

CLARENCE H. KENNEDY. Some Non-Nervous Factors That Condition the Sensitivity of Insects to Moisture, Temperature, Light and Odors. Annals Entom. Soc. of America. Vol. XX, pp. 87-106, Mar. 1927. The Relative Value of the State of Graduate and Undergraduate Studies in a State University. School and Society, Vol XXV, No. 644, April 30, 1927. The Exoskeleton as a Factor in Limiting and Directing the Evolution of Insects. Journal of Morphology. (in press). Assistant Managing Editor Annals Entomological Society of America.

WENCHEL J. KOSTIR. A Suggested Terminology for the Various Modes of Nutrition Found Among Microorganisms. Science, (in press.)

J. S. HOUSER. Spraying Program for the Orchard and Fruit Garden. H. C. Young, J. S. Houser, and F. H. Ballou. Bull. 393, Ohio Agr. Exp. Sta., pp. 3-26, 2 figures, 1926. The European Red Mite. Fifty-ninth Annual Report, Ohio State Hort. Soc., pp. 96-100, 1926. Care of Samples Used in Scoring the Results of Dormant Sprays for the San Jose Scale. Jour. Economic Entomology, Vol. 19, No. 1, pp. 94-95, 1926. Insect Problems of 1926. Sixtieth Annual Report, Ohio State Hort. Soc. pp. 104-109, 1927.

THE FRANZ THEODORE STONE LABORATORY

The director and staff of the laboratory passed through a very strenuous season in the 1926 session, in making the move to Gibraltar Island. Much of the work in the first half of the session had to be done in the midst of workmen putting in electric lighting, making adjustments of our temporary laboratory quarters, etc. In addition, the work of constructing the basement story of the new laboratory building went on close along side of our temporary laboratory during the whole summer. Notwithstanding these handicaps the laboratory had what is probably the most successful season in its thirty years history. Thirty-two students were registered for the work, all but five of them being college graduates and a good proportion of them interested in problems of a research character.

There were no changes in the staff but some equipment was added in the way of tables, chairs, and glassware.

We found no serious difficulty in living isolated from the larger island, as the distance is less than a quarter of a mile and our large and smaller power boats with six row boats made connections with Put-in-Bay an easy matter. The State Division of Fish and Game cooperated with us as usual in taking our shipped equipment back and forth from Sandusky.

In this first season of difficulties we have amply convinced ourselves that Gibraltar Island is a perfectly satisfactory site for the laboratory. With the completion of the new laboratory buildings, for which the money is already appropriated, the laboratory will be in a commanding position among the fresh-water laboratories of the country.

Doctor L. H. Tiffany of the Department of Botany has been already added to the laboratory staff for the coming summer and we will be able to begin the expansion of the botany work, particularly that of the aquatic plants of the Lake region and the fundamental problems of fish foods.

The laboratory last year registered all the students that could be cared for with our temporary laboratories and, at the present writing, June 1, 1927, the enrollment is practically completed for the coming session.

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean CLYDE O. RUGGLES

STATISTICS OF ENROLLMENT FOR THREE YEARS

The following tabulation shows the enrollment of the College by quarters for the past three years:

	1924	1925	1926
Summer	223	226	202
Autumn	1,631	1,644	1,728
Winter	1,595	1,584	1,681
Spring	1,474	1,474	1,525
Totals	4,923	4,928	5,136

The degrees granted over the same period of time were as follows:

Summer	25	21	26
Autumn	18	23	11
Winter	16	26	38
Spring	129	140	135
Totals	188	210	210

THE WORK OF THE EXTENSION DIVISION

The work of the Extension Division in the various cities in the state, in compliance with the law passed by the legislature in 1913, has been of vital importance not only to those served, but in its relation to the campus program. The number enrolled in these classes (642) increased 18 per cent over the registration of the previous year. The average enrollment per class was 20.7 as compared with 18.3 for the previous year. The age and educational background of these adult classes show that there were among them many major and minor executives and others in responsible business positions. The requirements for admission to these courses are the same as for admission to resident classes. Over a third of last year's extension students had attended college and almost 14 per cent held college degrees. The average age of these students for last year was 33 as compared with 32 for the year previous. These adult classes constitute a valuable "clinic" for the college. The members of the faculty teaching these classes are brought into close contact with actual problems of industry and business. Harvard University is planning to expend \$75,000 next year for the collection and preparation of case material in the field of marketing alone. The instructors teaching the adult classes in commerce and administration have an excellent opportunity not only to obtain concrete problems from the capable students in their classes but they develop many opportunities to obtain valuable data on their own account. In this manner also they discover some valuable projects which should be undertaken by the Bureau of Business Research. The faculty of this College is not able to obtain the data which they need in a library. They must go to the field of industry and business and make a careful study of what exists in actual practice. With the background which members of such a faculty ought to have, they are able to profit by first hand contacts and they can also make certain contributions to industry and business. It is the plan of the College to rotate the faculty to a certain extent between teaching in

the extension division and teaching in residence or to service in the Bureau of Business Research. In this manner the content of the resident courses is enriched and the faculty is given a proper perspective and a clear sense of direction in a given field.

THE SIGNIFICANCE OF THE WORK OF THE BUREAU OF BUSINESS RESEARCH TO THE COLLEGE

Reference to the report of the Bureau of Business Research will show the scope of its activities during the past year. The work of the Bureau is being enthusiastically received throughout the state. Business executives in Ohio, many of whom have received their education in the large eastern universities, are recognizing the value of the work which the Bureau is doing and they are cooperating with it in a very effective manner. There is little doubt that the interests of Ohio State University as a whole will be served by a normal growth and development of this important laboratory of the College of Commerce and Administration. In fact, our activities with the adult classes in the various centers of the state, and the work of the Bureau of Business Research, have the same relation to this College that the farm and the green-houses and other facilities have to the College of Agriculture, or that the physical facilities, laboratories, and experiment station of the College of Engineering have to the work of that college. Colleges of Commerce can be no less scientific in the approach to or the solution of their problems than the College of Agriculture and Engineering have been in their respective fields. There are at present twenty-one university Bureaus of Business Research, which report semi-annually the projects on which they are working to the Committee on Research of the American Association of Collegiate Schools of Business.

FIELD WORK AND THESIS REQUIREMENTS OF STUDENTS

For some years a certain amount of field work or theses involving field investigations has been required of students in certain curricula in the College. Within the past year the conditions under which these field work projects and experiences are carried out have been improved by the cooperation of the extension faculty. Reference to the report of the Accounting Department, for example, will show that beginning with next January plans have already been made with large accounting firms in certain Ohio cities to employ senior accounting students during the winter quarter when there is ample opportunity for valuable experience in this field. While such students are engaged in their field experience, they will be admitted to one or two extension classes which will be offered in most of the centers in which they are placed; also the extension faculty will cooperate with the accounting firms in which such students are employed in the supervision of the thesis which each student must present. Such a plan will enable such a student to obtain from 3 to 8 hours of credit and hence to finish his work by returning to the University for the spring quarter and for all or a part of the summer quarter. A similar plan will be followed for certain other curricula, placing the students in the field during that quarter of the year when the maximum benefits may be obtained from such an arrangement. In carrying out such a plan many students will be able to do this work in their home city. For example, there were last year almost 200 students in this College from Cuyahoga County. It is clear that these students may desire to fulfill their field work requirements in the city

of Cleveland. Obviously, the College will be obliged to time these field work projects in terms of the demand for the services of its students, which in turn will mean an adjustment of resident courses among the various quarters. It is clear that such a plan will necessitate an increase in our offerings in the summer quarter, at least for the first term. One of the by-products of the field work of students under supervision of the extension faculty will be a more logical placement of graduates in permanent positions, which in turn will make cooperation of the College with industry and business in the state more effective.

COOPERATION WITH THE COLLEGES OF ENGINEERING AND EDUCATION

During the year an arrangement has been worked out with the College of Engineering whereby that College will eventually provide certain courses for students in the College of Commerce and Administration. Likewise the College of Commerce and Administration will also provide certain courses in industrial management and closely related lines for students in the Department of Industrial Engineering. A joint committee of the two Colleges has been set up to work out this plan and to insure against possible duplication as the courses develop within the two Colleges.

The Colleges of Commerce and Education have a cooperative arrangement for the preparation of teachers of commercial subjects and for the training of persons interested in becoming educational directors or personnel managers in industry or business. It is agreed that all persons who desire to teach commercial subjects in the public schools shall enroll in the College of Education and that the courses in the College of Commerce and Administration will be open to these students. On the other hand all persons who desire to become educational directors or personnel managers in industry or business are to enroll in the College of Commerce and Administration and certain professional courses in the College of Education will be open to them. This arrangement ought to further the opportunities of students interested in all of these fields and to provide for them a much more satisfactory preparation than has been possible in curricula heretofore announced.

BUREAU OF BUSINESS RESEARCH

Director, SPURGEON BELL

During the year ended June 30, 1927, the Bureau of Business Research has completed and carried forward the studies which are classified below:

STUDIES COMPLETED AND IN PROGRESS FOR THE YEAR ENDED JUNE 30, 1927

1. Merchandise Management.

a. Studies Completed.

- (1) Influence of Ten-Pay-Plan Upon Store Prestige.
- (2) A Critical Analysis of the Operation of the Bankruptcy Act in Ohio—Preliminary Report.
- (3) Operating Results of Ohio Wholesale Grocers, Year 1926.
- (4) Returned Merchandise in Ohio Department Stores; Reasons for Return—Preliminary Report (In hands of printer).
- (5) Forecasting Department Store Sales (Part of Proceedings of Management Week).
- (6) Delivery Costs in the Ohio Wholesale Grocery Trade, Year 1925.
- (7) Social and Economic Aspects of the Relations of Farmers to the Towns in Pickaway County, Ohio (In hands of printer).

- b. Studies in Process.
 - (1) Group Buying.
 - (2) Stock Control in the Purchase and Sale of Men's Clothing.
 - (3) Returned Merchandise—Administration and Special Aspects of the Return of Merchandise to Department Stores in Ohio.
 - (4) Ohio Practice in the Training and Administration of Department Store Personnel.
 - (5) Analysis of Factors Affecting the Marketing of Apples in Ohio.
 - (6) Unfair Competition in the Retailing of Commodities.
2. Industrial Management Studies.
 - a. Studies Completed.
 - (1) Labor Management, Section II—Labor Maintenance (Preliminary Report Issued in Mimeographed Form).
 - b. Studies in Process.
 - (1) Labor Management, Section III—Labor Administration.
 - (2) Material Control in Foundries and Machine Shops.
 - (3) Foremanship Training with Special Reference to Ohio Practice.
 - (4) The Manufacture of Rubber Products in Ohio.
3. Employment Studies.
 - a. Studies Completed.
 - (1) Ohio Employment Studies.
 - b. Studies in Process.
 - (1) Industrial Ohio—An Analysis of the Development and Localization of Industry in Ohio on the Basis of Employment Statistics.
4. Real Estate and Building and Loan Studies.
 - a. Study Completed.
 - (1) Lending Practices of Building and Loan Associations.
 - b. Studies in Process.
 - (1) Ohio Procedure in Real Estate Surveys.
 - (2) An Historical Analysis of the Balance Sheets of Building and Loan Associations in Ohio.
 - (3) Methods of Valuing Buildings for Tax Purposes in Ohio.
5. Public Utility Studies.
 - a. Studies in Process
 - (1) The Place of the Truck in the Transportation System.
6. General Economic Studies.
 - a. Studies Completed.
 - (1) Construction Industry in Ohio.
 - b. Studies in Process.
 - (1) The Factors Underlying the Cycles in the Volume of Construction Contracts Awarded.
7. The Bulletin of Business Research (Published Monthly).
 - (1) Supplement of the Volume of Construction Contracts.
 - (2) Supplement on Real Estate Vacancies.
 - (3) Supplement on Measuring the Fluctuations of Employment in the Ohio Construction Industry.
8. Monthly Services to Trade Groups.
 - (1) Bulletin on Sales, Outstandings, and Prices in the Wholesale Grocery Trade of Ohio.
 - (2) Bulletin on Sales, Outstandings, and Advertising in the Ohio Retail Dry Goods Trade.
 - (3) Monthly Bulletins on Employment Conditions in the Following Industries:
 - (a) Ohio Foundries and Machine Shops.
 - (b) Ohio Steel Works and Rolling Mills.
 - (c) Ohio Blast Furnaces.
 - (d) Ohio Construction Industry.
 - (4) Monthly Bulletin on Automobile Sales in Ohio in Cooperation with the Ohio Council of the National Automobile Dealers Association.

The studies listed above have been made for the most part with the cooperation of some group or association of business men. The experience of the Bureau is that research activity can be conducted to best advantage with some group of business men sufficiently alive to common needs that they have formed some kind of organized activity. Business associations are in general directed by men who realize the need of a study of the problems of the business with which they are associated, but these men are not generally equipped to do research work. In so far as research work has been connected with associational activity it has been connected with national associations. Even the State Chamber of Commerce has not formulated a research program except such as may be incidental to the executive action which may be considered by the organization.

While the Bureau has been making the studies referred to in the classified list it has been making direct contacts with various associations in the state, where the results of studies have been given for the benefit of the associational groups. For example, the Professor of Industrial Management Research has given a number of addresses on material control in machine shops and foundries although the study on that subject has not yet been completed. Addresses have also been made by Bureau of Business Research representatives to building and loan groups at various meetings, and to dry goods groups as well as to state associations. Practically all of these contacts have been made on the initiative of the groups involved rather than on the part of the Bureau of Business Research.

EXTENSION

Director, THOMAS L. KIBLER

I. Organization of the Department:

Beginning October 1, 1926, the staff of the Department was organized as follows:

Thomas L. Kibler, Director.

J. B. Heckert, Assistant Professor of Accounting.

L. H. Grinstead, Assistant Professor of Marketing.

J. Wesley Sternberg, Assistant Professor of Business Finance.

William H. Bamberg, Instructor in Accounting.

This organization prevailed until the opening of the second term, when Charles H. Chase, Assistant Professor of Marketing, was added.

II. Teaching Program.

The following program of extension courses was offered in the cities indicated during the first sixteen weeks' term beginning October first:

Canton	Chillicothe	Dayton
Advanced Principles of Accounting	Money and Banking	Corporation Finance
Cost Accounting	Retailing	
Newark	Toledo	Lima
Advanced Prin. of Acct.	Cost Accounting	Corporation Finance
Barberton	Columbus	Marion
First Course in Accounting, Series X	Advanced Principles of Acct.	Advanced Prin. of Acct.
	Corporation Finance	
	Merchandise Planning	
Portsmouth	Zanesville	
Retailing	Retailing	

The following program was offered during the second term, beginning February:

<i>Barberton</i> Accounting, Series XI	<i>Canton</i> Advanced Cost Acct. Business Statements	<i>Chillicothe</i> Retail Advertising
<i>Cleveland</i> Sales Promotion Problems	<i>Columbus</i> Salesmanship and Management Income Tax Acct.	<i>Dayton</i> Retail Advertising Money and Banking
<i>Lima</i> Money and Banking	<i>Mansfield</i> First Course in Series X Corporation Finance	<i>Marion</i> Income Tax Acct.
<i>Portsmouth</i> Retail Advertising	<i>Toledo</i> Advanced Cost Acct. Salesmanship and Management	

This program indicates an increase in the number of cities served from eight to thirteen. The addition of these five cities has extended the service of the department to representative sections throughout the state. This is a fairly satisfactory showing considering the limited staff available.

III. Statistics.

The total enrollment for the two terms, excluding withdrawals for all causes, cancellation of courses included was 642. This represents an 18% increase over last year's figure. Of this total 374 were registered for the first term and 268 for the second.

The average enrollment per class for the first term was 24.9 and for the second, 16.7. The average enrollment per class for the year was 20.7, representing an increase of 13% over last year's average of 18.3.

Attendance has been satisfactorily maintained, running considerably higher than the average stated for extension courses given in other institutions. The average attendance per class for the fall term was 17.15, and for the spring, 11.65. That is, the average number present represents 68.8% of the average enrollment of the fall term and 70.9% of that of the spring term. Further, a total of 429 (66.8%) students out of an enrollment of 642 were reported "active" at the end of the term.

The quality of work done by these students has been gratifyingly high. Objective checks of the performance of regular lesson assignments with the campus have not been to the detriment of extension classes. It is not surprising that mature students, many occupying major executive positions, should be able to do work of high grade, but it is somewhat surprising to note the degree of application to which they are willing to submit themselves in order to do the work satisfactorily. The degree of maturity is indicated by the fact that the average age of students is 33. This is a somewhat more mature group than that of last year, the average age then being 30. This increase in maturity seems to indicate that the department is meeting a very real need for additional training by adults of maturity.

Educational background of students is as follows: 78.5% attended high school; 63.5% are high school graduates; 33.3% attended college; 9.7% at-

tended Ohio State University; 13.9% hold university or college degrees, while 4.9% hold degrees from the Ohio State University.

All courses offered were of university grade, and all were Standard Extension Courses of seventeen weeks' duration with the exception of four short courses of ten weeks each.

Total fees of \$5812.56 were collected and turned in by the Department.

IV. Additional Activities.

In addition to its regular teaching activities, the Department has cooperated with the Ohio Retail Clothiers and Furnishers Association at their request in an institute program. Meetings were held in Athens, Dayton, Lima, Mansfield, Sandusky, and Canton.

The plan of the College to place students in the field under supervision was put into practice during the Spring Term. At this time, the Department cooperated with the Campus Department in supervising a few marketing students in Cleveland. Reports from the cooperating firms, the Resident Department, and the students, confirm the Extension Department's impression that the plan is workable and highly promising.

A change in personnel is being brought about by putting into effect the plan of rotating men between Campus, Extension, and Research Divisions of the College. The two senior men of the Department are leaving for this purpose. Mr. Heckert, during the leave of absence of Professor Greer, assumes charge of the Accounting Department. Mr. Grinstead, following Mr. Comer, assumes charge of marketing research in the Bureau of Business Research.

The Department is operating on a cordial cooperative basis with the University of Toledo, whereby courses offered in that city are so planned that they supplement at the upper level those given locally. Similar arrangements are being made with other institutions. In addition to making the best possible use of the facilities of all institutions concerned, such an arrangement may be expected greatly to simplify the promotion of courses. Present methods continue to make use of direct mail, publicity matter in local newspapers, and personal contacts. A factor of increasing significance in placing courses is the recommendation of former students. Secretaries of local Chambers of Commerce are also active in recommending the courses, and in at least two instances most of the organizational work was completed by them.

COLLEGE OF DENTISTRY

Dean, HARRY SEMANS

The dental building is now practically completed, so that the Autumn Quarter will find us in full swing.

The new building for Dentistry will be entirely ready for use in the next Autumn Quarter. The following short description will give some idea of our purposes:

The fourth floor will maintain a clinic of seven chairs and units, (hereafter referred to as stations) to be used for orthodontics and advanced work; a laboratory, two technic rooms, a recitation room, and a room for histodental research.

The third floor will embrace the operative clinic, with for the present, eighty stations; Oral Surgery with nine stations, and the children's clinic with ten stations. A waiting room, X-ray room, recovery room, and sterilization room completes this floor.

On the second floor we will maintain our prosthetic clinics (plates, crown and bridges), thirty-two stations with two practical laboratories connecting with the clinic, one for plate work and the other for all metallurgical types of work. A chart room, a recitation room, a locker room for juniors and seniors, and a patients' waiting room completes this floor.

The first floor carries a large general technical laboratory for freshmen and sophomores, a locker room for these students, a recitation room, faculty room, and the college office.

The basement, besides the service space, contains a plaster laboratory, a shop room for mechanical experimentations, and storage.

For many years to come the north wing of Hamilton Hall should well take care of all dental needs. Many visitors during the past year have expressed themselves as very much pleased with the general outlay.

The completed wing was very appropriately dedicated on Tuesday evening, May 31st, by the Columbus Dental Society with the President of the Society, Dr. Sheldon J. Mann, Ohio State 1919, presiding; and Dr. Gillette Hayden, Ohio State 1902, as the speaker on the subject of dental picturegraph methods of child instruction.

We had 4323 patients during this year, requiring all kinds of work, each being assigned to our seniors and juniors. A tabulation of these 4323 patients shows that about 17,000 visitations were had for remedial and constructive work.

From July 1, 1926, to July 1, 1927, about nineteen thousand (\$19,000) dollars were paid in; an increase over the year before of seven thousand (\$7,000) dollars. With all parts of the clinical features operating next year, we no doubt will show a like increase over this year.

COLLEGE OF EDUCATION

Dean, GEORGE F. ARPS

The quantitative development of the several departments of the College is revealed in the statistical data found in the recording offices and need not here be repeated; the qualitative development, more or less impervious to quantitative determination, must remain as the chief measure of institutional success. Such data, therefore, as are incorporated in this report, it is hoped, may have some bearing on the quality of the service rendered.

Higher education for the past two decades has been confronted with problems of enormous complexity due to the unusual emphasis which modern civilization places on education. Society has elaborated the conception of education and the meaning of culture far beyond institutional adaptation. Diversity of opportunity represented by an amazing variety of curricula is a result of insistent social groups who demand representation in a public institution supported by taxation and in which such groups appear to have a vested interest. As a consequence our secondary schools and colleges are here and there inundated with students in excess of adequate accommodations. Many of our problems are likely to find their origin here and in the fact that a public insistent on wider educational opportunity is not equally insistent in providing the necessary instruction and facilities for effective classroom work.

In these circumstances, a part of the instructional staff is overburdened, some classes are oversized and the general quality of instruction adversely affected. Some criticism now charged to higher institutions is in part misdirected and unjust. Then too, a public service institution such as a state university is frequently denied the right to determine the standard of preparation of its entrants. This is, to some extent, due to a lack of intra-university elasticity and adaptation to public demands, but the consequence of this denial has been that a fraction of the student body is incapable of carrying on academic work successfully. The resulting academic mortality is frequently ascribed by the public to deficient instruction rather than to deficient intelligence, which has the limited justification of course, that instructional improvement is constantly needed and greatly desired.

There is another side to these problems which involves faculty and administrative responsibility. Complaint is frequent that students exhibit a lack of intellectual initiative and resourcefulness. Is this implied helplessness inherent in youth or is it a product of our secondary and collegiate system of educational treatment? Youth, by and large, is essentially venturesome, spontaneous, alert, possessed of initiative prior to their subjection to the deadly formalism of classroom routine and general regimentation. Exceptions are admitted. We seem to be in need of greater controlled experimentation, in methodology, in approach, in organization, in administration and in fact all matters pertaining to higher education since the times are exceedingly fluent and social evolution exceedingly rapid since the war. President Lowell, in another connection, has given expression to this idea in his recent annual report: "Experimentation and not uniformity in education is the need of the American colleges today."

In general the opportunity for self-help, self-education, self-direction pro-

vide the essential conditions for intellectual development. The educative process can only be effective when the student is self-active, self-determining and when there is some degree of gratuitous effort on his part. A system which does not insure gradual intellectual emancipation is likely to defeat the ends of education. Here the responsibility of the public does not apply. Dr. Anderson, of the Department of History of Education, in his annual report found below, bears as follows on the preceding discussion: "As in the past, the classroom work of the year has aimed not merely to impart information but to stimulate the student to *independent activity* both in the search for facts related to the subject at hand and in the interpretation of their significance."

The student should be given an opportunity to "experiment with life and make instructive mistakes without those tragic practical consequences which the world inflicts." No system of education is likely to attain character ends under a paternalistic attitude and one that tends "to prolong the intellectual childhood" of youth.

On the other hand, entering students should be carefully inducted into the larger life of the University. They should be properly oriented, given ample information and every agency of the University should be enlisted in effecting the transition of the Freshman from high school methods, secondary and home supervision to the life of freedom and personal responsibility, if an excess of personal and academic tragedies is to be averted. The establishment of personal relationship between the faculty and the verdant entrants is perhaps the most effective method of bringing about the needful readjustment of the students' conduct of life. Parents frequently fail to prepare their children for the assumption of the duties of self-direction. Theoretically the consequences of this failure cannot properly be the responsibility of the University. Practically, it is otherwise. In any case the University is at least responsible for the proper induction of the student to the newer and somewhat radical change in educational procedure. Proper induction accomplished, the student should, in his own interest, be given the opportunity to direct his own affairs while the channels of information and personal contacts remain open and accessible at all times.

INCREASED ENROLLMENTS

Educational prognosticators are not at all reassuring as to a stable number of college students. On the contrary, they prophesy mounting numbers without determinable limits. President Lowell pertinently makes the following remarks: "The classroom is not the only means of education; a youth may get more intellectual and moral education from practical work that he likes than from formal lessons that he loathes. All true education is self-education, and to force a boy to go to school beyond a certain point where he will be doing set tasks in which he takes no interest may stultify his mind and fret his character." How to screen this type of student out of the student body is an educational problem which as yet remains unsolved. The mortality lists are to some extent composed of this type of student and no kind or amount of nurture will effect a rescue. However, numbers will continue to mount under conditions of "free education" for it is still doubtful whether all who could profit by a college education now embrace the opportunity. If education actually is a profitable social investment, then competent numbers should not be disquieting, however distressing limited facilities may actually be. Nevertheless, the enrollment in the undergraduate years of the College of

Education is such that the public schools will soon be unable to extend further facilities for practice teaching. Some means of limiting enrollment may soon be forced to our attention.

CHANGES IN THE FACULTY

The college personnel has remained practically intact. Dr. J. Cayce Morrison, of the Department of School Administration, resigned to accept a position as Assistant Commissioner of Education of the State of New York. Dr. E. E. Lewis, formerly of Iowa State University, later Superintendent of Schools at Rockford, Illinois, and at Flint, Michigan, succeeded Dr. Morrison and was elected chairman of the Department.

The Bureau of Educational Research suffered an irreparable loss in the death of Dr. P. R. Stevenson, who had charge of the division of School Surveys and Construction. His untimely death at the age of 41 cut short an unusually promising career. Dr. Stevenson's surveys conducted in Ohio and neighboring states will long stand as examples of scientific thoroughness and will long be remembered by the communities whose problems he solved with singular devotion to the cause of childhood. Dr. T. C. Holy, who succeeds Dr. Stevenson, was Assistant Superintendent of the St. Louis schools and in charge of the city's extensive building program. He will continue the service which Dr. Stevenson successfully inaugurated.

Dr. H. G. Good, of Colgate University, later of Ohio University, was elected to a professorship in the Department of History of Education.

In the Department of Vocational Education, Dr. W. W. Patty, of Indiana University, was elected to succeed Dr. Wm. E. Stone. That fraction of the Smith-Hughes Teacher-Training Service which was conducted under the auspices of the Cleveland City Teachers' College was transferred to the Ohio State University. This transfer brought Professor J. Ray Stine to the Department of Vocational Education.

GRADUATE WORK

The advanced work of the College in all departments has been most gratifying. The Department of School Administration is rapidly assuming a graduate status. No 400 courses are now offered in the Department. In these circumstances it would seem advisable to consider future appointments to the teaching staff as of full professorial grade, competent to direct student research.

During the course of the current year there were more than forty requests from colleges and universities for graduates with advanced degrees. Of this number we were able to supply only 15. The demand is, therefore, in excess of the supply. For clinical, educational and general psychologists the demand exceeded all other demands. This is due, in part no doubt, to social, industrial and educational emphasis on problems of human conduct and relationships and to an increasing demand for psychological analysis of educational processes and procedures.

The College of Education has entered into arrangement with the College of Commerce and Administration whereby the division of service with respect to the training of teachers of commercial subjects is adjusted so as to avoid duplication of effort and thus to insure economy of operation. The former college will offer professional subjects and have direction of the curriculum, while the latter college will offer the content subjects. A similar arrangement

obtains with respect to the development of personnel managers (educational directors) for industry or business. In the former arrangement the students will enroll in the College of Education; in the latter in the College of Commerce and Administration. Such an understanding should prove mutually helpful and promote the educational interest of a considerable body of students.

EDUCATIONAL CONFERENCE

The Seventh Annual Ohio State Educational Conference was held April 7, 8, and 9, 1927. The first meeting of the Conference Committee to plan for this conference was on April 26, 1926, and from then on until the conference convened, the committee had numerous meetings and kept the development of the program steadily in mind. With the illness and death of Dr. Stevenson, Dr. Ashbaugh was made secretary of the committee and carried on the numerous activities of that position which Dr. Stevenson had so efficiently performed in previous years.

Speakers for the general sessions were: R. J. Condon, Superintendent of Schools, Cincinnati; William Allen White, Editor, Emporia (Kansas) Daily and Weekly Gazette; Payson Smith, Commissioner of Education, Massachusetts; E. L. Thorndike, Teachers College, Columbia University; W. W. Atwood, President, Clark University; and Harry Olson, Judge, Chicago Municipal Court. The 37 sectional meetings which took place on Friday were addressed by 29 out-of-state speakers. A total of 134 persons spoke or acted as presiding officers at these meetings. State participants on these programs, not including members of the University faculty, came from 20 different counties in the state. The talent secured for the Conference this year was fully equal to that which in previous years has made our conference the outstanding educational meeting of the state.

The publicity for the conference was largely conducted through the office of Mr. James E. Pollard, Director of the News Bureau, with the assistance of Dr. Hullfish. In addition to this, however, the Bureau sent out 5000 special invitations and 15,000 letters and special announcements to school people throughout the country. While doubtless complete clippings were not received by the secretary, an analysis of the newspaper space given in 68 cities within Ohio showed 1248 column-inches of material. Four hundred sixty inches of this space were given by Columbus papers which were exceedingly generous in their reporting.

The total registration this year amounted to 4163 persons, which is an increase of nearly 57 per cent over the registration five years ago. Unquestionably a large number of people attended the conference without registering. We estimate a total attendance, registered and unregistered, of approximately 6000. One of the best evidences of the increased attendance is found in the distribution of registrants throughout the state. This year 24 cities had 20 or more registrants as against 11 in 1923. There were 71 communities with 6 to 19 registrants as compared with 41 in 1923. Several of these 41, however, came into the more-than-20 class in 1927. Eighty-three of the 88 counties in the state were represented by one or more persons and more than 50 people attended the conference from outside the state. In comparing the registration by types of position we find a larger number of village superintendents, senior high-school principals, junior high-school principals, elementary-school principals, senior high-school teachers, junior high-school teachers, and elementary teachers in attendance in 1927 than in any previous year.

This growing attendance at the Educational Conference and the evidence that these programs are modifying educational practice for the better throughout the state present a definite challenge to the University to use the utmost endeavor to make each succeeding conference equal, if not superior, to any conference program in the past. Acknowledgment is made to the Bureau, the Program Committee, the Secretary of the Executive Committee and the Chairmen of sections who gave unsparingly of their time and energy to make the conference a success. Certainly the conference presents an opportunity for contact between the University and the school people of the state which makes for greater efficiency for everyone concerned.

BUREAU OF EDUCATIONAL RESEARCH

Director, BURDETTE R. BUCKINGHAM

Probably no type of service rendered by the bureau is more appreciated by the school people of the state than the local building-program surveys. The bureau is able to give expert advice, unbiased by local interest or prejudice. It is able to bring to the superintendents and the boards of education the best that is known as it relates to the local situation. Each survey makes a group of friends for the University who thus become supporters of the larger University program. In addition to this, these surveys furnish opportunities to graduate students in school administration to receive an exceedingly practical type of training which it is impossible to offer them in the classroom.

RESEARCH PROJECTS

Project 1. *Class-size* and Project 2. *School Publicity*. Owing to the untimely death of Dr. P. R. Stevenson who was in charge of these projects, work on them has been temporarily suspended. Dr. Holy has already planned to resume the work in school publicity.

Project 2. (Old series.) *Departmental Teaching*. This study was intended as a comparison, under controlled conditions, of subject teaching and grade teaching. Through the courtesy of the Cleveland Schools the Murray Hill School was turned over to us for this purpose. The period of experimentation lasted a year and a half. The report was written by Dr. A. W. Stewart and was submitted during the year as a doctor's dissertation.

Project 3. *A Comparison of Kindergarten and Non-Kindergarten Children in the Primary Grades*. This project, which has been under way for four years has been brought to the point of a formal report, submitted by Miss MacLatchy who has been in charge of the details of the work. This report is being submitted to the University Press for publication as Bureau of Educational Research Monograph No. 8.

Project 46. *The Influence of Absence on School Work*. Early in the fall Dr. Ashbaugh solicited the cooperation of twelve county superintendents in the state on this project. The plan was for the Bureau to furnish the material and the superintendents to give certain standardized tests to children in one-room and consolidated schools in the fall and again in the spring and in addition to turn in a report to the bureau on the attendance and home conditions of the children to whom the tests were given. Eleven of these county superintendents agreed to cooperate and the testing was done, both autumn and spring. The results of the tests are now being scored and tabulated and the report will be prepared within the next few months.

Project 52. *Teaching Load in High Schools*. The materials for this study were taken from the cards used in Project 7. The full report will be made in connection with Project 55. The data were tabulated by sexes and subjects for junior and senior high schools separately, and variations, central tendencies, and correlations with training and experience were computed.

Project 54. *The Relation of Training to Subjects Taught*. In this study a critical analysis is being made of the training of high-school teachers, with reference to the majors and minors which they carried while in college, and the subjects which they are now teaching. The tabulations have been completed and will be reported in connection with Project 55.

Project 55. *For What Are Teachers Paid?* The individual record cards of more than 8000 teachers collected in connection with Project 7 (reported by the Director in *Supply and Demand in Teacher Training*) have been tabulated and studied in connection with this project. The tabulations were made for men and women separately according to type of position, and

correlations were computed. In the elementary schools, the kind of position and the teacher's experience are found to be the salary determinants.

By partial correlation technique regression equations were written for the junior and senior high-school teachers. Experience is again the dominating factor in determining salary. In some cases training is a factor of weight, while teaching load is found to be almost a negligible quantity.

The study is not quite complete, since the regressions are in reality found to be non-linear. By considering only those junior high-school teachers who have had twelve years' experience, or less, and the senior high-school teachers of seventeen years' experience, or less, linearity is sufficiently approximated to permit the usual technique to be used without seriously affecting the results. This part of the study is now under way, and should be completed during the summer quarter.

For the junior and senior high schools the tabulations were made by subjects. From these tabulations it is possible to show the salaries which the subject teachers receive, the experience and training which they have had, and the teaching loads which they carry. This project together with Projects 52 and 54 will probably be reported in a monograph to be issued during the fall of 1927.

Project 57. *Bureaus of Educational Research.* This project has also been carried to the point of a formal report. The report was written by Dr. H. B. Chapman and was submitted last August as a doctor's dissertation. The report has been accepted for publication by the University Press. It will appear shortly as Bureau of Educational Research Monograph No. 7. Subsequent to the formulation of the major report on Project 57, additional study of the data gave rise to a series of reports which were printed during the year in the *Educational Research Bulletin*.

Project 58. *Minor Problems in Arithmetic.* New data were secured this year on one of these problems, namely, the question of whether multiplication and division facts should be taught together or separately. Study of material previously secured led to the preparation of the report which appeared in our Bulletin under the title, "Teaching Addition and Subtraction Facts Together or Separately."

Project 59. *The Inherent Difficulty of Learning to Spell Certain Words.* Tabular results on the spelling of a large number of children in the elementary grades were secured on a specific list of words in schools where a particular spelling procedure was in operation. This procedure consisted of testing before study on Monday and retesting on Wednesday and Friday with study periods on Tuesday and Thursday devoted to the words missed on the previous day. In addition, certain words which had been taught a month earlier were also reviewed on Wednesday and Friday with the intervening study day. These reports are now in the Bureau and will be made a subject of special study in the near future.

Project 60. *Junior-Senior High-School English.* On this project Dr. Ashbaugh has secured approximately 1400 letters written by junior and senior-high school children throughout the United States and sent to their friends through the mail. These letters present the type of English which children of these grades use when writing on their own initiative and not as a requirement of the school work. Since the children know that these letters are to be judged by their peers and not by teachers, it is thought that they represent the best measure of the teaching of English as it functions in the life of these children.

The letters are being analyzed for vocabulary, sentence structure, spelling, and punctuation. They are being classified by sex and grade and the final results should show more accurately than any previous study has done the English which children of these grades actually use.

Project 60. (Old series.) *Problems of High-School Administration and Supervision Which Have Their Origin in the Classroom.* Last August Dr. H. C. Koch made a report on this project in the form of a doctor's dissertation. The project, like Nos. 3 and 57, has therefore been discontinued—at least for the present.

Project 61. *Teacher Personnel Problems.* This study is sponsored by the Ohio Schoolmasters Club and the National Committee on Research in Secondary Education. One of the major problems of this project has to do with "Men in Teaching." Statistics showing the number and percents of men teachers in the public schools are being collected.

FINE ARTS

Keeping in mind the various ways in which a Department of Fine Arts should function in order to justify its existence in a University, I am able to report that the past year has been an encouraging success.

1. As a cultural opportunity for students majoring in other fields.

As part of our general program the Department has assumed responsibility for continuous exhibitions in the Library and the corridor of Hayes Hall. These exhibitions and the introduction of three new courses in "Appreciation" have broadened the opportunities for general contact with the Fine Arts and the large enrollment in the new courses justified our belief that there is a demand for this opportunity. Other developments have come with the two new instructors, Mr. Rannells and Mr. Wiser, who have brought a new stimulus through the unusual quality of their technical training.

2. As a training school for teachers of art.

There is a continued increase in the number of positions to be filled by art teachers and requests for qualified people come to us from many quarters. This demand may be considered as an indication that our graduates are proving satisfactory and that a recommendation from this institution is an authoritative force.

3. As a laboratory for the development of professional artists.

The original work by advanced students in painting and sculpture has reached a higher stage of development than ever before. This work has been exhibited in different places on the Campus and in local exhibitions for professional artists where it has been a credit to the University and an inspiration to beginning students.

4. As a sympathetic background for productive work by members of the staff.

The members of the staff have been unusually active in original production and have been represented in the national exhibitions of painting and sculpture. Mr. Wiser received the important "Walter Lippincott" Prize at the Pennsylvania Academy of Fine Arts as well as two lesser prizes. It is to be noted that this particular phase of departmental activity, original research, is done under a heavy handicap as the very limited space at our command leaves no opportunity to assign laboratory room to members of the staff and they are obliged to work, as best they can, in rooms which happen to be unoccupied by classes.

5. As a dependable agent in carrying on general University activities.

The Department has taken advantage of every opportunity to assist in University affairs. In this connection mention should be made of numerous radio talks and of the furnishing of the new wing of Pomerene Hall which was accepted as a departmental responsibility and has had the cooperation of the entire staff.

Without being at all satisfied with the present status we feel that the departmental program is being carried forward and that foundations are being laid which will become the basis for a materialization of our hopes for the future. If these hopes are realized in any measure, it will be necessary for us to have more floor space at our disposal and I recommend this for your consideration as the immediate need of the Department.

HISTORY OF EDUCATION

The year just passed is the first in several years during which no major position on the instructional staff has been filled by temporary appointment. This may have been a factor contributing to the number of publications by members of the staff during the year. Since the last report Assistant Professor Eckelberry has completed his study of the conditions relating to the origin and growth of the municipal university. The dissertation, which has been accepted as partial fulfillment of the requirements for the degree of Doctor of Philosophy, will be published in the near future. The publications by other members of the staff for 1926-1927 are:

Professor Good: *When Priestley Was a Teacher. School and Society.* v 24, 313-319.
 Labor Chides the School. *Educational Review*, v. 72, 197-199. *An Early School Surveyor*, Ed. Research Bulletin, v. 5 351-353. *A Form of Matching Test*, Ed. Research Bulletin, v. 6, 158-160.
 Critics of Milton's Tractate, *Education*, (accepted for publication.)

Professor Anderson. *History of Manual and Industrial School Education*, D. Appleton & Co., *The Archaeologist's Contribution to Our Knowledge of Greek School Life, Education*, v. 46, 375-360.

During the year two new courses have been added to the instructional program of the staff. A course of study of the personalities, methods, lives and times of Great Teachers is offered by Professor Good. This has been done in the belief that students preparing for any profession may derive guidance and inspiration from the study of the lives and characters of those who have achieved eminent success in that calling.

Professor Eckelberry in the new course, *The History of Education in Ohio*, inaugurates, not only a review and discussion of the data on the subject already available, but a course of investigation designed to contribute a much-needed extension and rectification of existing accounts of the subject.

As in the past, the classroom work of the year has aimed not merely to impart in-

formation but to stimulate the student to independent activity both in the search for facts related to the subject in hand and in the interpretation of their significance.

During the year Professor Good has inaugurated a series of purely informal and voluntary meetings of advanced and graduate students for the review and discussion of papers embodying the results of studies made by individual members of the group.

PSYCHOLOGY

ELEMENTARY AND ADVANCED SERVICE

The matter of elementary instruction for the past several years has received serious attention. Prof. Wilson two years ago, was invited to the Department and given the problem of supervision and instruction of the beginning work in psychology. Dr. Renshaw, from the viewpoint of the learning process, and Dr. Rexroad in conjunction with Dr. Wilson are making special studies of the elementary course. The entire department has, in a general way, given considerable thought in departmental meetings to the whole problem of elementary instruction. At the present time only seasoned teachers are offering instruction to Freshmen and Sophomores. The title of instructor, or part-time instructor, is given to temporary members of the staff irrespective of the title held at other institutions. These temporary instructors held ranks at other institutions varying from instructor to full professor, with teaching experience ranging from two to ten years.

The graduate work of the Department is exceedingly gratifying although there is very great need of further development as is indicated by the demands for the products of the Department. During the course of the year the Department had the following requests for graduates holding the Ph.D. degree or A.M. degree:

- 11 instructors.
- 6 assistants
- 10 assistant professors.
- 2 professors.
- 12 requests in the field of clinical psychology.

This demand greatly exceeded our supply. The Department was able to recommend only fifteen candidates, all of whom were elected and successfully placed. There were 25 requests in excess of our supply.

MISCELLANEOUS ACTIVITIES

A. Publications:

During the course of the year the staff published in standard periodicals 45 articles, 15 reviews, and two books, one by Dr. Goddard and one by Dr. Burt.

B. Addresses:

Seventy-nine lectures or addresses were given during the year 1926-1927. These addresses were given before technical societies, honorary societies, educational conferences, teachers' associations, commencements, technical audiences, and miscellaneous social groups.

C. Scientific Meetings Attended:

Seventeen associations were attended by various members of the staff, including the American Psychological Association, and the Midwestern Association of Experimental Psychologists.

D. Research in Progress:

One hundred and one researches are in progress. These studies include individual researches of the staff and A.M. and Ph.D. student theses.

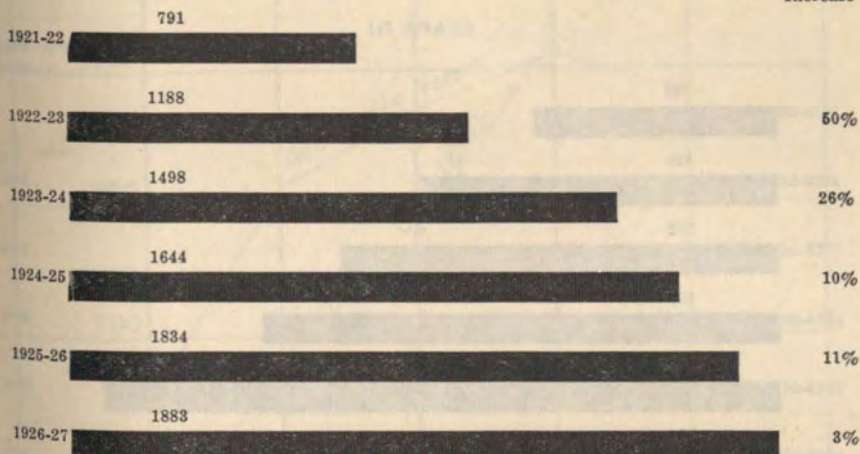
In addition to the above, the various members of the staff participated in departmental, collegiate and university types of service. This service varied from committee work such as the University Press, Supply of Upper Classman, Membership on the Graduate Council, Committee on Student Standing and Guidance, Committee on Instructional Methods for Freshmen, Advisory Service (Dr. Troops—University of Minnesota, University of Wisconsin and New England Association of Colleges and Secondary Schools) Secretarial Service in connection with the University placement tests, conferences with the Society for the Conservation of Child Welfare, etc.

SCHOOL ADMINISTRATION

DEPARTMENTAL STATISTICS REGARDING ENROLLMENT

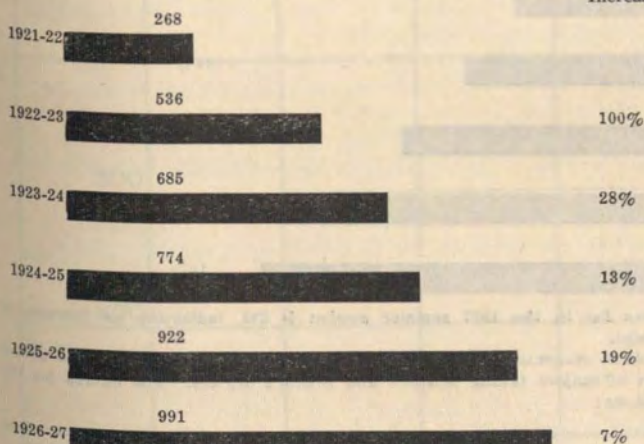
Graph I sets forth the total annual class enrollments of students in the Department of School Administration 1921 to 1927. This includes all class registrations for four full quarters.

GRAPH I

Per Cent
Increase

Graph II gives the total class enrollments for both terms of the summer session of 1921-22, to 1926-27. The last figure represents the summer of 1926.

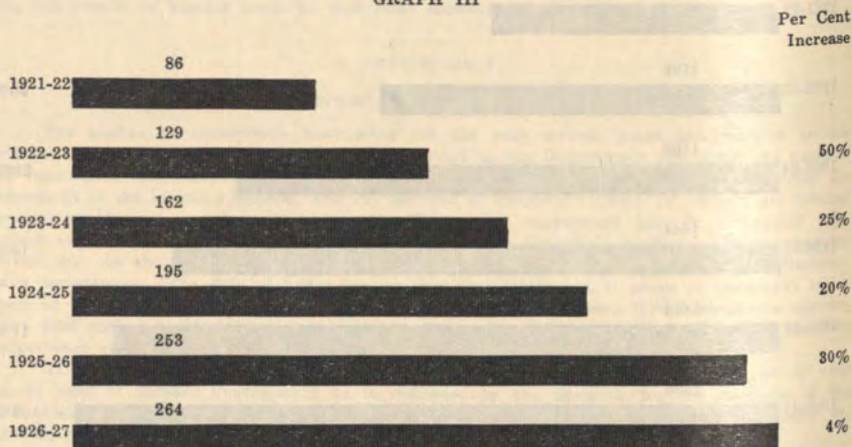
GRAPH II

Per Cent
Increase

The above graphs demonstrate the fact that the Department of School Administration had a very rapid and steady growth in total class enrollments up to the present year. The past year the increase has been slight but the enrollment for the first term of the summer session of 1927 (data as of June 24, 1927) shows that the tide has again set in. There is thus far a 35 per cent increase in class enrollments this summer over that of last summer. The Department is now the largest graduate department on the campus. The following graphs show the steady and rapid growth in number of different graduate students:

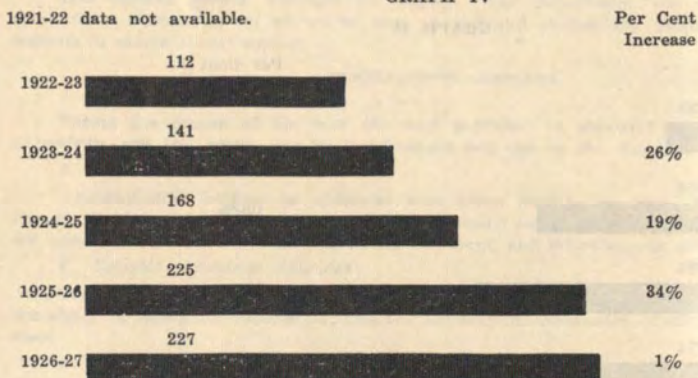
Graph III shows the total number of different graduate students registered in School Administration 1921 to 1927 inclusive of the four full quarters.

GRAPH III



Graph IV presents the number of different graduate students registered in School Administration in the summer sessions of 1921-22 to 1926-27. The last figure is for the summer of 1926.

GRAPH IV



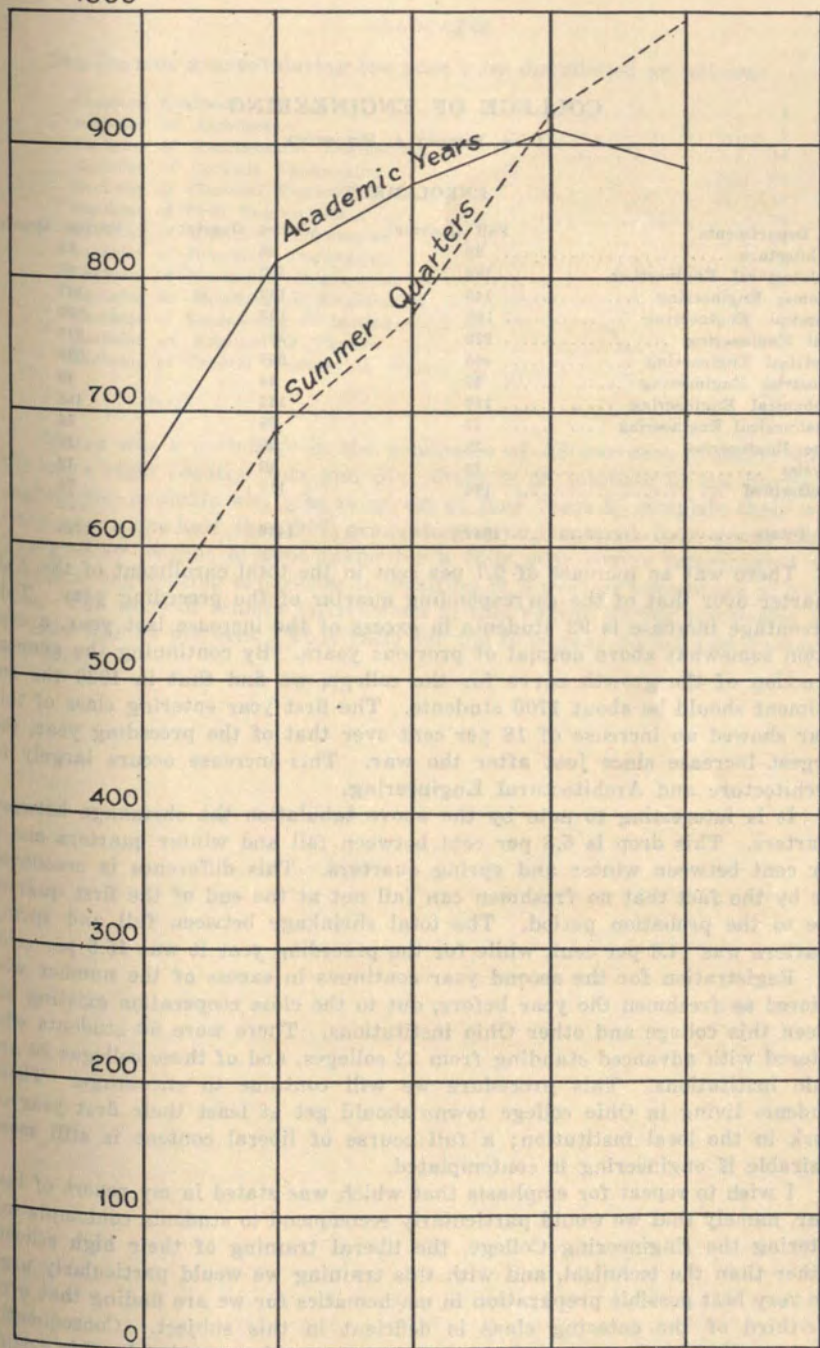
The enrollment thus far in the 1927 summer session is 292, indicating an increase of approximately 30 per cent.

The quality of graduate students majoring in School Administration is perhaps best shown by the increased number of majors taking Master's and Doctor's degrees. The figures for the past 5 years are as follows:

Degree	1922-23	1923-24	1924-25	1925-26	1926-27
M.A.	12	13	21	23	34
Ph.D.	0	1	2	2	6

There were on June 15, 1927, 43 different persons registered in the Department as candidates for the Ph.D degree and approximately 450 other persons registered as candidates for the Master's degree. The task of directing the theses activities of so large a number of mature graduate students is increasingly burdensome.

1000



1922-23 1923-24 1924-25 1925-26 1926-27

GRAPH SHOWING TOTAL CLASS REGISTRATIONS IN THE DEPARTMENT OF SCHOOL ADMINISTRATION

COLLEGE OF ENGINEERING

Dean, EMBURY A. HITCHCOCK

ENROLLMENT

Departments	Fall Quarter	Winter Quarter	Spring Quarter
Architecture	99	88	88
Architectural Engineering	124	122	98
Ceramic Engineering	145	139	127
Chemical Engineering	109	103	100
Civil Engineering	229	221	213
Electrical Engineering	400	363	338
Industrial Engineering	37	44	48
Mechanical Engineering	199	187	168
Metallurgical Engineering	41	38	36
Mine Engineering	22	20	19
Physics	12	19	12
Unclassified	130	112	79
Totals	1547	1456	1326

There was an increase of 9.7 per cent in the total enrollment of the Fall Quarter over that of the corresponding quarter of the preceding year. This percentage increase is 93 students in excess of the increase last year, a condition somewhat above normal of previous years. By continuing the general direction of the growth curve for the college, we find that in 1930 the enrollment should be about 1700 students. The first year entering class of this year showed an increase of 18 per cent over that of the preceding year, the largest increase since just after the war. This increase occurs largely in Architecture and Architectural Engineering.

It is interesting to note by the above tabulation the shrinkage between quarters. This drop is 5.8 per cent between fall and winter quarters and 9 per cent between winter and spring quarters. This difference is accounted for by the fact that no freshmen can fail out at the end of the first quarter due to the probation period. The total shrinkage between fall and spring quarters was 14.3 per cent, while for the preceding year it was 15.5 per cent.

Registration for the second year continues in excess of the number who entered as freshmen the year before, due to the close cooperation existing between this college and other Ohio institutions. There were 56 students who entered with advanced standing from 32 colleges, and of these colleges 20 are Ohio institutions. This procedure we will continue to encourage. Those students living in Ohio college towns should get at least their first year of work in the local institution; a full course of liberal content is still more desirable if engineering is contemplated.

I wish to repeat for emphasis that which was stated in my report of last year, namely that we would particularly recommend to students contemplating entering the Engineering College, the liberal training of their high schools rather than the technical, and with this training we would particularly urge the very best possible preparation in mathematics for we are finding that over one-third of the entering class is deficient in this subject. Consequently a non-credit, preparatory mathematical course must be provided for this group.

GRADUATES

The degrees granted during the year were distributed as follows:

Chemical Engineer	1
Bachelor of Architecture	9
Bachelor of Architectural Engineering	14
Bachelor of Ceramic Engineering	20
Bachelor of Chemical Engineering	10
Bachelor of Civil Engineering	29
Bachelor of Electrical Engineering	47
Bachelor of Industrial Engineering	2
Bachelor of Mechanical Engineering	26
Bachelor of Metallurgical Engineering	8
Bachelor of Engineering in Mining	3
Bachelor of Engineering Physics	1
Bachelor of General Engineering	1
Total	171

There was a shrinkage in the graduates of 4.5 per cent probably due to the more rigid requirements and that there is an increase in the number of engineering students who take in excess of four years to complete their work. Only about one-half the 1927 graduating group entered four years before. The greater lengths of time taken for a four year course interspersed with practical engineering experience is resulting in a greater percentage of graduates. The ratio of seniors to freshmen in this college during the period 1913 to 1922 was 34 per cent. That ratio for the four year period just past is 49 per cent.

BROADCASTING STATION WEOA

R. C. HIGGY, *Acting Director*

Much progress has been made during the year which has placed our station in a very favorable position among the college and university broadcasting stations of the country.

The most important part of any broadcasting station is its program. More time and thought has been devoted to the program than in any year previous with the result that a more extensive and better planned program has been presented. A plan whereby each University Department presented one or more series of six lectures has been followed, each lecture of the same series being given at the same hour on the same evening, one week apart. There have been 46 series of lectures presented following this plan during evening programs, 40 University Departments being represented.

A more extensive program has been presented than in any past year as is evidenced by the fact that the station's actual time "on the air" averages approximately 22 hours per week. This is four times more than the average college or university station and more than any other single station operated exclusively by an educational institution.

Many improvements and additions have also been made to the station equipment. Three portable speech amplifiers and associated control equipment were designed and built. These have enabled the station to broadcast in a satisfactory manner many lectures and programs from various points on the University campus and throughout Columbus. This equipment has been built at an almost unbelievable saving to the University. It would have cost at least \$2500 to purchase this equipment complete, whereas it was built at a cost of approximately \$300. The type of speech amplifier which has been built enables programs to be presented from a remote point with smoothness and quality comparable to that from a permanent studio.

In accordance with a contract between the Board of Trustees of the University and the Neil House, an elaborate broadcasting studio was arranged in the Neil House under the supervision of the broadcasting station. This studio provides a place from which programs may be presented in the center of the city and has made possible many good programs which were not available before. The apparatus employed at this studio was built by the station operating staff and is such that programs can be broadcast from the Neil House studio using telephone lines connecting to the station on the University campus, with the same quality as from the University studio. This studio provides a source of regular musical programs which is quite necessary to intersperse with the educational program of the station.

CERAMIC ENGINEERING

The healthy growth in this field of engineering is evidenced by the steadily increasing enrollment in this department. The senior classes have grown from 13 in 1924-1925 to 27 in 1926-1927, with registration indicating 35 in 1927-1928. The teaching load of the department has increased from 951 student credit hours in 1923-1924 to 2274 student credit hours in 1926-1927. In addition to three fellowships in cooperation with the Bureau of Standards, this department directed a fellowship in 1926-1927 for the study of casting ceramic bodies and has another fellowship for 1927-1928 for study of corrosion of glass furnace refractories. These fellowships are financed by industries, and indicate the interest of the manufacturers in this department.

The growth of the department has crowded the laboratories to the limits and any increase beyond present enrollment will demand additional laboratory space.

CHEMISTRY

It is a great pleasure to record the advantages resulting from the opening of the new library room. While this room is only temporary, pending the completion of the new laboratory, nevertheless, it is much more commodious than our old and very inadequate quarters. As a result of the enlarged accommodations, the library is used to a much larger extent than ever before. The door bears the appropriate legend "The Charles Cutler Sharp Library of Chemistry," while on the walls of the library is hung an enlarged picture of the loyal graduate who endowed the library.

The very fine spirit of the students of the Division of General Chemistry was reflected during the year by the presentation to the department of a sum of money entirely adequate

for the purchase of a specially designed large bronze tablet which will be placed in one of the laboratories commemorating its dedication to that great chemist, Edward W. Morley, whose classical researches on the "determination of the exact composition of water" were carried on in the state of Ohio.

The department is also glad to announce the gift by the students in the class of Organic Chemistry, of a large portrait of Pasteur appropriately framed.

The graduate division of the department continues to grow in number and efficiency. During the year 93 students were enrolled in the Graduate School with chemistry as their major. In addition to a number of Master's degrees, nine students of the department were awarded the degree of Doctor of Philosophy. The prominent part that the Department of Chemistry has played in the graduate work of the University is shown by the fact that out of the 201 Ph.D degrees awarded by the University, since the organization of the Graduate School, 87 majored in the Department of Chemistry.

In the field of research, Professor W. L. Evans and his students have continued their exhaustive study on the general subject of the oxidation of carbohydrates—a study which has extended over many years. Accounts of these researches have appeared from time to time in the Journal of the American Chemical Society and it is hoped that ultimately all of these may be brought together and published in the form of a monograph.

Professor C. W. Foulk is continuing his study of the problems connected with the foaming of water in steam boilers. This subject is one of fundamental importance and great interest has been manifested in the progress toward the solution of the problems in this field.

Professor Edward Mack has continued his investigation in the field of molecular physics with some noteworthy results, among which may be mentioned that of the determination of the crystal lattice of iodine—a problem that has never been solved although its solution has been attempted by some of our most reputable scientists.

Professor C. E. Boord has developed an entirely new method for the preparation of unsaturated hydrocarbons. The results of the many researches carried on under his guidance in the field of rubber chemistry promise to make it possible to replace at least some of the "rule of thumb" methods used in many of the operations in connection with rubber, by a sound scientific method of procedure.

Dr. W. G. France's researches in colloidal chemistry are proving of the greatest importance in the scientific development of a number of processes belonging to the field of ceramics. A number of papers have been published in the Journal of the American Ceramic Society discussing the results obtained.

Finally, Dr. J. E. Day has made a noteworthy contribution to the study of the oxidation of carbon.

CHEMICAL ENGINEERING

The present year in the Chemical Engineering Department has been a very satisfactory one from the point of view of assistance rendered students. To this the great contribution was made in the gradual assembling of our equipment in the new Chemistry and Chemical Engineering Laboratories.

The alumni of the department expressed their interest in the service which we have attempted to render with the appreciated help of a long line of assistants including the present staff, by presenting the Chairman of the department with a fine black walnut office chair containing a silver plate inscribed on the back as follows: "Presented to Dr. James R. Withrow by Alumni Associates and Former Students, Ohio State University, June 1927," together with a very fine office ink stand containing two high grade Parker fountain pens and fixtures. Still more important, however, was the long list of letters received from alumni upon the completion of 20 years in charge of this work at Ohio State University. These letters of appreciation were very fine ones and were just as important whether they came from the Presidents of companies, as two of them did from among our former students, or from more recent graduates holding subordinate chemical engineering or chemical positions.

CIVIL ENGINEERING

During the year ending June 30, 1927, the Department has provided a new curriculum by way of senior electives in Highway Engineering. This has been done to meet the urgent request of State Highway and Good Roads people throughout the State. Ohio is one of the leading states of the Union in having a wide variety of road and highway problems and of materials available for their construction. The topographic and geologic formation over which roads have to be built offer a wide variety of conditions, from the extremely flat northwestern portion to the very choppy hills of the southeastern coal measures. While Ohio has not issued bonds as have other States, it has carried on from its general revenues one of the most

vigorous road building programs in the Union. Prof. R. C. Sloane will have charge of the new Highway Engineering Options.

In connection with the above, Professor Eno has been carrying on research work on road foundation failures for the past two years. This has been done in cooperation with the U. S. Bureau of Public Roads, and important results are expected to be obtained within a few years. Prof. Eno will act as lecturer in the Highway Option Group during the coming year until provision can be made for the outside lecturers contemplated originally.

In the structural materials laboratory housed in the Engineering Experiment Station, Professors Shank and Morris have carried on an important series of tests on methods of reinforcing corroded steel beams. This work was done for Mr. Clem Cooke of Columbus, Ohio, who has a promising method of reinforcing such weakened beams by gunite and steel reinforcing. Beams were tested with and without casing and striking results were produced. The information thus gathered was presented by Professor Morris at the meeting of the American Railway Engineering Association in Chicago in January, and has been written up for the Engineering News Record by Professor Shank. It bids fair to introduce great economies in bridges whose floor beams and stringers have been more rapidly eroded than other parts of the structure.

Practical experience in engineering is required of every student to whom a diploma is given in Civil Engineering. Summer surveying camp is carried on to give such experience to those who do not get engineering work for themselves. Last summer all students in the Department secured practical work excepting eight who went to camp at Yellow Springs, Ohio, where they topographically surveyed and mapped the larger portion of the John Bryan Farm of 500 acres, which is now a State Park under the administration of the Board of Trustees of this University. A few days before the close of camp all students were offered positions on the Pennsylvania Railroad engineering corps and all but two spent the remainder of the summer at good salaries in the service of that company. In this connection it may be interesting to note that those members of the graduating class in June, 1927, who had gotten their experience elsewhere than in camp, averaged a little more than 12 months of practical experience each to offer for graduation.

The calls on the department for engineering help during the past year have been far beyond the supply of available men and still continues. This is aside from public service positions which offer a great field for Civil Engineers. A recent circular of the U. S. Civil Service Commission shows 3223 engineering positions in that service. Of these 1932 are in Civil Engineering or require training given primarily by such a department. In addition, the State and cities also offer opportunities for our graduates, some of which have been taken by the students during the year just closed.

Besides technical articles and semi-technical articles written by members of the department staff during the year, the Chairman during the year published the first map of the State to show its original subdivision lines, accompanied with a text of 235 pages giving an historical account and explanation of their origin. The volume contains a clear explanation of land records on file at the State House and is valuable for abstractors, lawyers, surveyors, and engineers. It has also been well received by historians and general leaders.

ELECTRICAL ENGINEERING

We desire to state first that the work of the Student Branch of the American Institute of Electrical Engineers deserves special comment. The Branch has been unusually active and effective under the competent leadership of the chairman, Mr. Lee P. Doyle. A good program was printed and followed quite successfully through the year. The by-laws of the Branch were revised to admit freshmen as associate members. This has been the first year that the new system of faculty counselors has been in complete operation. The Chairman of the Department was selected by the students as Counselor.

During the past year the "honors system" has been in force for the first time in the Department. As early as is practicable each quarter, lists are posted giving the names of the electrical engineering juniors and seniors who received a point ratio of 3.00 or above during the preceding quarter. The students on these lists are known as "honors students" and are given special consideration in the matter of carrying extra hours, reading courses, substitutions, doing work in absentia, etc.

The graduate work given in this department is showing a gratifying increase.

The communication laboratory equipment is excellent and up to date, but needs further extension. There are at present two fields in which Ohio State University would probably be named by specialists as among the first two or three educational institutions in this country and perhaps among the first half dozen in the world. These are communication and illumination. Those in charge of these fields of instruction should have opportunities and facilities for such research and publication as will keep them before their respective technical publics.

While the equipment in illumination is also among the best in the country, there is still much which should be added to make it more comparable with some of the industrial laboratories.

ENGINEERING DRAWING

At the beginning of the school year the members of the Department voted unanimously to attack the subject of Descriptive Geometry along a different line. A new textbook was used and although this book is not a classic on the subject, the work was presented in such a way that the students seemed to grasp the problems more quickly and to retain them throughout the duration of the course. The work was very much simplified—more ground was covered and the students seemed to be more interested than in previous years. This led to a much lower percentage of failures and but few students dropped out during the Quarter.

The Department, as has been its custom for 20 years, held its regular weekly departmental meetings. Thirty-two of these meetings were held during the year. Guests from other departments were invited from time to time. These meetings naturally are a great help in the uniformity of teaching large classes. A survey was made of the opinions of the departments which teach students who have had Engineering Drawing. Many profitable suggestions were obtained and the Department of Engineering Drawing thereby hopes to coordinate the work to better advantage with other departments and colleges.

INDUSTRIAL ENGINEERING

There was one change in personnel during the year. Mr. E. A. Janning resigned as Instructor in the Shop Courses, and his place was taken temporarily by Messrs. Denman, Wright, and Rickly. A request has been made for the permanent appointment of Mr. Peter Morrison for this position. Mr. Morrison is a graduate of Ohio State University and is at present with the International Harvester Company.

During the year instruction was begun in several new courses, namely: first, Advanced Foundry Work in which there were registered 16 students. This course is working out very satisfactorily. Second, courses in Industrial Engineering numbered 601, 603, 623, 653, 701, 702, 703, 705, 751, 752, 754; third, course 630, Inspection Trip which was taken by 12 students. A new idea was started by this inspection trip, as only two plants were visited, three days being spent in each plant. Course 712 which was started last year is showing a very gratifying increase in enrollment, having increased from 24 to 52 students in the spring quarter alone.

During the year Professor W. A. Knight designed a drill press. The patterns for this press were made in the Pattern Shop, castings were made in the Foundry, and then machined in the Machine Shop. The finished product is of very high quality. The total enrollment for the year in the 24 courses given in the Department was 1138 students. Throughout the year the cooperation and spirit of the organization has been of the best, and the Department looks forward to increasingly successful years.

MATHEMATICS

Toward the close of the fiscal year, which ended June 30, 1926, the department of mathematics lost two of its members. Professor R. D. Bohannon died suddenly June 20, 1926, just after finishing the work of his thirty-ninth year as head and chairman of the department. Assistant Professor R. L. Wilder resigned to accept a position in the University of Michigan. The advanced courses that would have been given by Professors Bohannon and Wilder have been taught by other members of the department; the elementary courses that would have been taught by them were taught by assistants. For many years Professor Bohannon taught much of the advanced applied mathematics. This work is important not only to advanced students in mathematics, but also to advanced students in physics, and in other fields. During the first part of the year careful attention was given by the department to the matter of securing an able person to handle this applied work. The department considers itself fortunate in securing the services of Dr. A. D. Michal, who has been elected assistant professor of mathematics, effective October 1, 1927. Dr. Michal spent two years as National Research Fellow in mathematics after securing his Ph.D. degree at Rice Institute. As National Research Fellow, he has studied at Chicago University, Harvard University, Princeton University, and Rice Institute, and we expect his work in the department to be of high order. He is especially interested in the applications of mathematics.

Careful study has also been given during the year to the problems connected with the teaching of mathematics. At the beginning of the year a card catalogue was installed for keeping records of the work done by students in the department. These cards show also the standing of students in high school work, and in psychological tests. These record cards are valuable to the department in several ways, but particularly in the matter of segregating into

sections according to ability, and in the matter of studying correlation between departmental, high school, and psychological test records. A study of this kind is now being made of the records for the year 1926-1927.

MECHANICAL ENGINEERING

The decrease in students in Mechanical Engineering has been common to almost all the engineering colleges of this country, but has been particularly bad at this institution because of our practice of repeated subdivision, which practice is opposed by the report of the S. P. E. E. on "Investigation and Coordination." Some publicity has been given to the fact that the demand for our graduates in Mechanical Engineering is several times the supply by an article prepared by Mr. Pollard and published in a number of Ohio papers, and by me in "Ohio Schools" for June, 1927, and in the Sunday Dispatch for June 26, 1927, and by articles which it is expected will shortly appear in the "Ohio State Monthly" and in "Power."

The subjects of the cooperation with colleges of Ohio and the possible formation of junior curricula in the College of Engineering are meeting with favorable reception. It is hoped that there will be an increasing number of transfers from Ohio colleges, so long as the student can get the desired education at his home college.

METALLURGY

Perhaps the most gratifying item that we have to report this year is the excellence of the work done by our seniors and post-graduate students in investigation and thesis work. The N. W. Lord Fellowship established by Mr. Calkins and held by Roger C. Quick has resulted in a complete solution of the problem presented by the Coal Analysis Committee of the American Society for Testing Materials and a copy of the work will be submitted to this Committee and published.

Another student has proved that the atmosphere in the annealing boxes of a malleable castings plant has a profound influence on the malleabilizing of white iron castings. Another student has worked out a method for the determination of the proper time for the annealing process in making malleable castings. Another graduate student has proved that some of the recent printed statements concerning the case hardening of steel by nitrogen are incorrect, and has accumulated valuable fundamental data on case hardening by nitrogen. Another post-graduate student has continued with very gratifying results researches which we have been carrying on for six years on the laws of metallic diffusion and which we are now about ready to publish. We believe that we have developed also a new and thoroughly practical method of the carbonization of coal.

Other researches carried on by the Faculty of the Department are about finished and, indeed, I am very much gratified at the very high quality of research work which the Department is producing. Our urgent need is to have the old assay laboratory repaired and put into such condition that will make it possible for us to expand our senior and post-graduate work.

MINERALOGY

The enrollment for the year shows an increase. A course in advanced crystallography and intended for graduate students, was given for the first time this year. The increasing importance of the study of crystals in research in the field of chemistry and the physical sciences made it necessary to give a more advanced course, giving in it, in addition to the descriptive phase of crystallography, the more detailed methods and calculations used in the projection, drawing and study of crystals including the methods and calculations used in X-ray analysis of crystals. Eight graduate students completed this course.

Enrollment in Mineralogy 611, Microscopic Petrography, was too large for the equipment. It was necessary to give this course in three sections principally because of the small number of microscopes available. This is a source of considerable trouble to the students and to the department in the necessary rearrangement of schedules, and also consumes the time of instructors needlessly in running small sections.

During the past year two Engineering Experiment Station-Bureau of Standards fellows majored as graduate students in Mineralogy. Mr. Henry Fish completed his research on "Spinels and Their Use as Refractories," writing up the results of his investigations as a thesis for the degree of doctor of philosophy. This work is a valuable contribution both to our knowledge of solid solution in spinel minerals and the effect of temperature upon their composition and also has an important bearing on their use as refractories.

Mr. Arthur Focke, holder of the second fellowship, worked on X-ray study of powder of minerals found in clays with the purpose of extending the range of microscopic mineralogy of clays previously reported in the bulletin on the Coal Formation Clays of Ohio by the Ohio Geological Survey.

During the rather short time available for use of the X-ray equipment, because of the delay in its satisfactory installation, Mr. Focke prepared X-ray spectrographs and calculated the data for many of the minerals found in clays.

The Central Alloy Steel Company sent Mr. Cape, one of its young engineers to the University for a period of three months to do research work in this laboratory. Mr. Cape is a graduate of the Royal School of Mines. He worked with Professor McCaughey on the Mineralogical Constitution of Open Hearth Steel Slags. The Central Alloy Steel Company paid for the thin sections of slags and contributed the entire time and services of Mr. Cape, and made experimental costs of slags.

Three researches were actively pursued in the Department last year: (1) Solid Solution in Spinel and Its Relation to Refractories; (2) X-ray Investigation of Minerals Commonly Occurring in Ohio Clays; (3) Mineralogical Constitution of Open Hearth Steel Slags.

It is a matter of considerable importance for research work in the field of mineralogy and crystal structure to be able to record that X-ray equipment was obtained during the past year in conjunction with the departments of Metallurgy and Ceramics and that this new tool is now available for researches in the fields of mineralogy, ceramics and metallurgy. The equipment as it now stands has only four cameras though the instrument is provided with slots for 12. To cut the cost of operation and save enormously on the time, it will be necessary to purchase additional cameras and it is hoped that the equipment will be completed by purchase of additional cassettes (cameras).

The mineralogy of precious and semi-precious and ornamental stones has been neglected because of lack of equipment—it is proposed to extend this work and it is hoped that sufficient funds will be available for the purchase of gem stones for this work.

MINE ENGINEERING

In spite of decreased enrollment we feel that the Department of Mine Engineering has made rather more than usual progress during the school year 1926-1927. During this year the optional curriculum in Mine Engineering known as the "Petroleum Engineering Option" has been approved by the faculty and is now, for the first time, printed in our College of Engineering bulletin. In the development of this curriculum our policy has been conservative. We have retained in this curriculum most of the fundamentals of the (standard) Mine Engineering curriculum yet putting into it enough Geology and Petroleum Engineering work to fit men for service in this somewhat specialized field of Mine Engineering.

Assistant Professor E. V. O'Rourke, who was brought here to develop this work, has made a careful study of the educational needs of the Petroleum Engineer and the results of his study are embodied in this curriculum. We do not consider this a finished product but believe that what we have done is fundamentally sound and furnishes a firm base upon which to build. The students of the departments of Mine Engineering and Geology have evidenced a gratifying interest in this work. Mr. O'Rourke has submitted this curriculum for comment and suggestion to the Director of the leading Petroleum Engineering school of the country and to several Petroleum Engineers with the large oil producing companies. He has received a number of quite complimentary replies from these men.

Professor H. E. Nold is at present making a survey of Clay Mining in Ohio. This work is mainly financed by the Engineering Experiment Station (Project No. 63) and is receiving the hearty cooperation of the clay mining industry. The entire autumn quarter (1926) was spent in the field and plans call for spending practically the entire summer of 1927 in the same way. The immediate results of this work have, so far, been two letter bulletins on Clay Mining, distributed to the clay mine operators by the Ohio Ceramic Industries Association, and an interesting symposium on Clay Mining Problems at the recent spring meeting of the above named association. The industry is taking a very gratifying interest in this work and it is hoped that the results of the survey may be of real benefit both to the industry and the School of Mines. The addition of two Plane Table outfits to our equipment during the last two years has made it possible to add instruction in the handling of this widely used instrument to our work in surveying.

In common with the majority of the mining schools of our country, our enrollment has decreased sharply during the last two years. It is our belief that this condition is closely associated with the post war depression in metal mining and the continued unsatisfactory economic conditions and labor troubles in the bituminous coal mining industry. There seems to be an idea in the heads of the high school students that the field of Mining Engineering no longer offers attractive opportunities for their life work. This idea is erroneous. The supply of Mine Engineering graduates is insufficient to meet the needs and demands of the industry. A campaign of publicity, to acquaint the high school students with the opportunities in this field is needed. Michigan College of Mines and Technology has been given money by the

legislature to embark upon such a program. This is mainly in the form of many scholarships made available to worthy high school graduates, mainly in Michigan, but also extending to the other states of the Union and to the Latin American Countries and the Provinces of Canada. I do not believe in propoganda, but I do believe that we owe it to the youths of Ohio to acquaint them with the facts of the case. In 1926 Ohio was sixth among the states in the value of its mineral products. It is inconceivable that the youth of such a large mineral producing state would not adequately support the State Mining School if they were made acquainted with the facts.

PHYSICS

The number of students registered in the general courses in physics for the year 1926-1927, was considerably in excess of the number registered in the corresponding courses for the year 1925-1926. This growth was especially evident in Physics 411-12-13, for premedical students. The development of the Graduate Work referred to in the preceding report goes on progressively especially in the Summer Quarter. A larger and larger number of students are becoming interested in the advanced courses in physics and more and more of them are engaging in research work. Twelve or thirteen students are ordinarily engaged on some kind of research problem in the physical laboratory. In the Summer Quarter most of these students come from the better high schools and colleges of the state and are working for advanced degrees.

The question of organizing the work of the elementary courses so that the beginning students will grasp more fully the significance of the modern developments in physics, is receiving serious consideration and it is hoped to make the general courses contribute more to the intellectual life of those students who have no thought of specializing in physics. Associated with this problem is the question of more effectively training teachers of physics for the secondary schools. We now have few students who are preparing to teach physics and chemistry in the high schools. The need for such teachers is large and it is our hope to devise some satisfactory way to meet this need.

One of the unusual events of the year of much interest to the Department of Physics was a series of eleven lectures on "Twentieth Century Discoveries in Physics." These lectures were given by Professor Robert A. Millikan, Director of the Norman Bridge Laboratory of Physics of the California Institute of Technology, under the auspices of the Graduate School. They proved to be of much interest and a source of real inspiration to many students and members of the Faculty who have not found it possible to keep in touch with the recent brilliant discoveries which are being made in the physical sciences.

ENGINEERING EXPERIMENT STATION

The personnel of the Advisory Council of the Engineering Experiment Station for the year ending June 30, 1927, was:

E. A. Hitchcock, Director
 Alpheus Smith, Physics
 A. S. Watts, Ceramic Engineering
 C. T. Morris, Structural Engineering
 J. R. Withrow, Chemical Engineering
 D. J. Demorest, Metallurgy
 F. W. Marquis, Steam Engineering

PROJECTS AUTHORIZED DURING YEAR

Vibration of Crank Shafts by Professors C. A. Norman and K. W. Stinson.
 Investigation of Ohio Ceramic Industries by Professor G. A. Bole.
 Clay Mining in Ceramic Industries by Professor H. E. Nold.
 Enamel Development on an Eutectic Basis by H. E. Simpson and Professors A. S. Watts and G. A. Bole.
 Vitrification as Studied by X-ray Method by A. E. Focke and Professor J. W. McCaughey.
 Polarized Alternating Current Electromagnets by Assistant Professor Alva W. Smith.

BULLETINS PUBLISHED DURING THE YEAR

There has now been published by the College of Engineering and the Experiment Station 33 bulletins and 13 circulars. One bulletin only was published during the past year, namely, "Plan of Cooperative Sliding Scale of Wages as Applied to Bituminous Coal Mining," by F. A. Ray, Consulting Director School of Mines. Several other bulletins were ready for publication but have been delayed on account of lack of funds.

The outstanding event of the year was a cooperative agreement between the State Welfare Department and the Station which is resulting in the erection of a heavy clay products ex-

perimental plant at Roseville, Ohio. The Station provides the equipment and the Welfare Department the building. It is expected the plant will be in operation by January 1, 1928, and it, operated in conjunction with the State production plant located on the same property, will make possible lines of ceramic engineering investigation work unequalled anywhere in the world.

STATION ACTIVITIES

The work of the station during the past year has been quite limited in scope and many old projects lay dormant due to inadequate funds, but nevertheless the active projects were of very high quality. The investigation by F. H. Eno of Ohio road subsoils in cooperation with the United States Bureau of Public Roads and the State Highway Department has now been in progress for three years and will probably continue for two years longer. Enormous savings to the State will result as a consequence of this research. Preliminary results have been reported in the Sixth Annual Meeting of the Highway Research Board, National Research Council, and in the proceedings of the 1927 meeting of the American Road Builders Association. To make available the information which has been obtained a circular will soon be published by the Station.

Mention is also made of a most important investigation, entitled "Tests of Composite Steel Concrete and Steel Members," by Professors C. T. Morris and J. R. Shank. The purpose of this project was to determine the possibility of reinforcing old or new steel members by encasing them in concrete in which is embedded more or less reinforcing steel. Many beams and columns have been tested, very valuable results have been obtained and Professor Morris has made a preliminary report entitled "Concrete Encased Structural Steel" and accounts of the test have appeared in the Engineering News Record. An opportunity has now been given to try out this method in a practical way by treating two badly corroded girders of the High Street viaduct. The results of all observations will appear in a Station bulletin covering the subject very completely.

The Ohio Ceramics Industries Association which has been organized primarily for cooperation with the Experiment Station made it possible to secure for a member of the station staff, G. A. Bole, formerly Superintendent of the Ceramic Station of the Bureau of Mines now of the Bureau of Standards. Professor Bole, who is also a member of the faculty of the department of Ceramic Engineering, is making a study of the ceramic industries of the State as to their methods of operation efficiency, etc.

In parallel with Ceramic Industry survey, Professor H. E. Nold is investigating the methods of clay mining. About two-thirds of the Ohio heavy clay plants have been visited and as a result letter bulletins have been issued covering several phases of clay mining.

COLLEGE OF LIBERAL ARTS

Acting Dean, WILBUR H. SIEBERT

THE ENROLLMENT

The enrollment of the college for each of the four quarters is given in two forms, namely, (a) to show the numbers in Arts and Arts-Education and (b) to show the relative number of men and women in the college.

(A)	Summer 1926	Autumn 1926	Winter 1927	Spring 1927
Arts	387	2077	1829	1639
Arts-Education	52	123	122	118
Totals	439	2200	1951	1757

(B)	Summer 1926	Autumn 1926	Winter 1927	Spring 1927
Arts:				
Men	210 (59%)	1458 (68%)	1372	1242 (69%)
Women	141 (41%)	668 (31%)	606	550 (31%)
Totals	351	2126	1978	1792

The withdrawals were as follows:

	Summer 1926	Autumn 1926	Winter 1927	Spring 1927
Withdrawals—Men	12	45	52	40
Withdrawals—Women	7	15	14	15
Totals	19	60	66	55

A comparison with the corresponding figures of enrollment (Table A) for last year will show that the Summer Quarter this year had an attendance of nearly 50 more, that the Autumn Quarter had over 40 fewer, and that both Winter and Spring Quarters ran nearly 140 fewer this year.

There has also been an increase in the number of withdrawals this year, ranging from 2 to 20 in the different quarters, the largest increase being in the Winter Quarter 1927.

HIGH SCHOLARSHIP

The number of students on the Honor Roll in the autumn of 1926 was 90. This includes 17 who received the B.A. degree in June, three in August, and one in December 1926, besides three in March 1927. Nineteen students were on the Honor Roll out of a class of 182.

CONVOCATION HONORS

The number of students who received the B.A. degree *with honors* during the year was as follows:

Summer	Autumn	Winter	Spring	Total
1	0	3	16	20

The total for the year is only 2 less than last year. During this year 1 student graduated with high distinction in Zoology, 2 in Chemistry, 1 in Mathematics, and 1 in Philosophy.

DEGREES

The number graduating from the College of Liberal Arts during the year was 281, distributed as follows:

Degree	Summer	Autumn	Winter	Spring	Total
B.A.	48	21	28	168	265
B.Sc.	2	0	0	14	16
Totals	50	21	28	182	281

The grand total is slightly less than that of last year, (286).

POOR SCHOLARSHIP

The number placed on probation, or dismissed for continued poor scholarship, is shown in the following table:

	Summer	Autumn	Winter	Spring	Total
On Probation—Men.....	18	259	116	141	534
On Probation—Women	6	67	25	27	125
Totals	24	326	141	168	659
Dismissed—Men	5	52	107	50	214
Dismissed—Women	2	12	23	5	42
Totals	7	64	130	55	256
Dismissed 9-Quarters					
Men	0	5	10	10	25
Women	1	1	0	5	7
Totals	1	6	10	15	32

A comparison of the grand total of those placed on probation this year with that of last year, shows a large increase, namely, 238. In the case of those dismissed during the successive quarters, there is an increase of 176, while in the case of those dismissed under the 9-Quarter rule the increase is only 25. This increase in poor scholarship is a disheartening condition to the College Faculty. It is exhibited both among the women and the men, but is much more conspicuous among the latter, partly on account of the greater number of men in the college who lack the requisite mental ability or the proper preparation, partly on account of the greater interest of the men in activities, partly on account of the considerable proportion of them who engage in occupations to pay at least a part of their expenses, and partly no doubt on account of our necessity during recent years to teach Freshmen and Sophomores in large classes.

THE ADMINISTRATION OF THE COLLEGE

Dean W. E. Henderson's six years of efficient service, rendered the task of the Acting Dean much simpler than it would otherwise have been in carrying on the routine work of the college office. The experience of the Executive Committee in dealing with the affairs of the college has also been of great assistance. The recent resignation of Secretary S. M. Whinery made it necessary to find a new secretary, and in mid-April 1927, Mr. J. C. Troutman, A. M., former Superintendent of the State Military Institute of New Mexico, accepted the position of Acting Secretary until June 1st, and will serve as the permanent secretary beginning with the Autumn Quarter. He has already shown himself to be highly efficient. Professor George A. Washburne kindly consented to serve as Secretary pro tem during the Summer Quarter, and displays marked skill and consideration in dealing with the problems of students and in meeting their parents. His previous experience in the college office stands him in good stead. It is hoped that the administrative officers may come more and more into helpful relations with the abler students, though it is no doubt inevitable that the weaker ones will continue to claim most of their time and attention. I am deeply indebted to the President and Board of Trustees for approving all recommendations thus far made for new appointments in the college office.

THE DEPARTMENTS

Ten departments, some of which are budgeted in the College of Liberal Arts and all of them teaching large numbers of Freshmen enrolled in this college, were compelled to close their sections at the beginning of the Winter Quarter before registrations had been completed. Five of these departments were compelled to do the same thing at the beginning of the Spring Quarter under similar circumstances, the reasons being lack of teaching personnel and lack of equipment. This situation creates embarrassment in the college office and complications for the students concerned. It is expected that relief will be afforded next autumn. Our large number of students, especially of Freshmen, is responsible for the condition mentioned. A study of the course offering of all departments budgeted in the College of Liberal Arts shows that there are still some advanced courses in certain departments that attract only one or two students per quarter, and a few that are taken by none at all. It is strongly recommended that such courses be eliminated.

There have been a number of changes among the instructors and assistants in various departments; also a few resignations by men of higher rank which will be noted in connection with the departments concerned.

1. *Astronomy.* There has been a noticeable decline in the attendance in the elementary course in this department during the Autumn and Winter Quarters, but a marked increase in the Spring Quarter. The advanced courses also experienced a decline throughout the year. This decline seems to be in part at least a reflection of that experienced in the general enrollment of the college.

2. *Classical Languages.* There has been a slight decrease in the number of students taking Greek in each of the three regular quarters this year, in comparison with last. The attendance in the Summer Quarter was the highest. In Latin there is a growth of interest, as shown by material increases in enrollment in the Autumn and Winter Quarters. Instructor Stanley B. Smith resigned in June, 1927, to accept an Assistant Professorship in a college in Maine. Professor M. B. Ogle has been absent on leave a part of the year, pursuing his studies in Rome and traveling in Europe.

3. *English.* Many of the sections in the more elementary group of courses in this department are unavoidably large, and in some instances a marked decline in numbers has taken place. In others a notable increase has been experienced. The same statement applies to the more advanced courses which in general are of a desirable size for the best teaching. A few of these, however, attract more than a hundred students, who receive instruction in a single section. In general the department has grown materially in numbers, the increase showing in each of the quarters as compared with those of last year. Professor W. L. Graves has been absent in Europe on leave during the Spring Quarter.

4. *Geology.* This department gained in enrollment in the Autumn Quarter, but lost somewhat in the other two quarters. During the year it has made a careful examination of the standing of its students in their various subjects, with a view to improving the quality of their work in Geology.

5. *German.* There continues to be an increase in the number of students who are taking German, and a few of the elementary sections are too large for satisfactory teaching and learning. Professor Leonard Bloomfield, an able scholar, has resigned to accept a position in the University of Chicago,

and Assistant Professor Ernest Feise, an excellent teacher, has also resigned, having received a call from Johns Hopkins University. Professor H. Kurath of Northwestern University, and Professor T. Böhme, both superior scholars, have accepted invitations to become their successors.

6. *History*. The union of the two former departments of History was mentioned in the Dean's report last year. It is working smoothly, and the spirit among the teachers is excellent. The experiment is to be tried this year of teaching two large sections, one of 250 students in European History and the other of an equal number in American History, these classes to be divided into small groups for conference and quiz by picked assistants. Under proper conditions this plan works successfully in other universities. Professor Carl Wittke, the chairman of the department, taught in Chicago University last summer. Professor E. H. McNeal was absent on leave during the year, conducting classes at Wisconsin University. His courses here were satisfactorily given by Acting Assistant Professor Paul B. Schaeffer. Assistant Professor George A. Washburne was absent on leave during the Spring Quarter, teaching in the University of Texas.

7. *Philosophy*. This department shows a slight decline in enrollment in comparison with last year's figures. Professor J. A. Leighton will give the new three-hour course for Seniors of the college in the Development of Modern Civilization, which is to be "required of all students majoring in subjects falling within the field of the biological and inorganic sciences, including mathematics and psychology."

8. *Political Science*. In the Winter and Spring Quarters the number of students in this department is somewhat larger than in the corresponding quarters last year. A Bureau of Political Research is one of the cherished hopes of this department.

9. *Romance Languages*. In French the enrollment is notably larger this year than last; in Italian it has changed but little, and in Spanish it has materially declined. During recent years the work in Spanish has been reorganized and improved. A new Professor has been provided for in the department.

ACTIVITIES OF THE STAFF

Various members of the teaching staff have been engaged in bringing out textbooks, as well as in publishing the results of research. A new bulletin will soon be issued by the Publication Board of the University which will give the titles of these books and publications.

THE CURRICULUM

The new course on the Development of Modern Civilization, three credit hours, Autumn and Winter Quarters, to be taken by all Seniors majoring in subjects falling within certain fields, will be given by Professor J. A. Leighton for the first time this year, as mentioned above. The course on the Development of Modern Science, also three credit hours, Autumn and Winter Quarters, to be taken by all Seniors who have not majored in science, will be conducted by Professor W. E. Henderson. The course on Literary Appreciation, to be taken by certain groups of Juniors, has been postponed until next year, by action of the University Faculty on recommendation of the College Faculty. This course was to have been given by Professor Clarence E. Andrews of the

Department of English. Certain new demands upon this department, however, have rendered the giving of the course inadvisable for the year 1927-1928.

THE GENERAL STATE OF THE COLLEGE

In view of the fact that various committees of the University Faculty have been making a protracted study of conditions on the campus which affect the College of Liberal Arts, as well as the other colleges, it seems unnecessary at this time to deal with the "General State of the College." The only remark that one need make is that this college is in a thoroughly sound condition and that an admirable spirit permeates both the Faculty and the students. It is also worth noting that the University Administration is showing a laudable purpose to increase salaries, and that this policy has a wholesome effect within this college as it does within the others.

COLLEGE OF MEDICINE

Dean, E. F. McCAMPBELL

ENROLLMENT

During the year there were enrolled in the College of Medicine 319 students. In the regular medical course there were 302 men and 17 women. It is gratifying to note that a very large proportion of the students in the College of Medicine have either attained their bachelor's degree or are candidates for the degree of Bachelor of Science or Bachelor of Arts. Attention is also directed to the fact that a number of young women have registered in the Science-Nursing courses in the College of Agriculture and in the College of Education. These courses provide for an academic degree as well as a certificate as a graduate nurse at the end of five years training. This course is carried on in affiliation with the training school for nurses in the University Hospital.

During the year 7 students received the degree of Doctor of Medicine at the end of the Summer Quarter, 3 students received the degree of Doctor of Medicine at the end of the Autumn Quarter and 55 received the degree of Doctor of Medicine at the close of the Spring Quarter in June.

In my annual report of 1925 and also in the report of 1926 I directed attention to the fact that very careful consideration is being given the question of premedical scholarship as a basis of determining those students who are qualified to enter the freshman year in the College of Medicine. The University Examiner has been studying this question for a number of years. Particular attention is being given to the question of the evaluation of premedical credits received from other institutions than the College of Arts of Ohio State University. The same careful methods will be used by the University Examiner in the selection of students for the class entering in the Fall of 1927.

FACULTY

Few changes of importance have taken place in the Faculty of the College of Medicine during the current year. There have been the usual number of appointments of new assistants in the departments. During the year Dr. R. G. Hoskins, Chairman of the Department of Physiology, resigned in order to engage in a five year program of research at Harvard Medical School, the same being financed by Mrs. Stanley Field. Dr. Hoskins' successor has not yet been appointed. Dr. John Dudley Dunham, one of the professors in the College of Medicine, after several years of very efficient work resigned in order to devote his entire time to private practice. Dr. Alexander M. Steinfeld who for many years has had charge of the work in orthopedic surgery resigned from the faculty, as well as Dr. Arthur M. Hauer, Assistant Professor of Oto-Laryngology.

TEACHING AND RESEARCH

As in the past years considerable emphasis has been given to the development and standardization of high grade teaching in all the departments of the College of Medicine. Very marked improvements have been made in the teaching of clinical medicine. This has been brought about largely by the intro-

duction of the modified whole time instructor who is paid a definite salary by the University, is furnished office space by the University and is allowed to do a limited amount of private work in the private pavilion of the University Hospital. Except in heavily endowed institutions it is not possible to secure the services of properly trained clinicians for the average salary which it is possible to pay in the University.

During the year the clinical staff of the University Hospital has held regular monthly meetings for the discussion of matters of scientific importance and in addition the medical and surgical groups have each held two luncheon meetings a month for the same purpose. The staffs at St. Francis Hospital and Children's Hospital have held monthly meetings.

The research programs of the various departments in the College of Medicine have been actively carried on during the year. Attention is directed to the departmental reports attached herewith which list the subjects which have been investigated.

UNIVERSITY CLINICS

The College of Medicine as in years past has conducted its clinics in the following institutions: The University Hospital and St. Francis Hospital which are under direct control of the College, the Children's Hospital, Columbus State Hospital, Franklin County Tuberculosis Sanitarium, and four obstetrical homes, namely, Friends' Rescue Home, Crittenden Home, Elizabeth Home and the Mary Price Home with which we are affiliated. The College of Medicine also operated the State Street Dispensary and conducts the outpatient obstetrical work in various private homes throughout the city.

Special clinics for the benefit of practitioners of medicine have been held during the Spring Quarter. A list of these clinics is attached herewith.

Clinics conducted at University Hospital.

EYE

Dr. A. D. Frost

- (1) Obliterated Socket; Plastic and Skin Graft.
- (2) Anterior Staphyloma; Enucleation and Gold Ball Implantation.

EAR, NOSE, AND THROAT

Dr. Hugh Beatty

- (1) Chronic Mastoiditis; Radical Mastoidectomy.
- (2) Post Nasal Polyp; Excision.

GENITO-URINARY

Dr. Wm. N. Taylor

- (1) Cystoscopic Clinic.
- (2) Lantern Slide Demonstration.

GENERAL SURGERY

Dr. Paul Charlton

- (1) Blood Transfusion.

Dr. J. W. Means

- (1) Cancer of Stomach; Gastroenterostomy.
- (2) Cancer of Stomach; Post operative demonstration.
- (3) Cancer of Colon; Demonstration.

Dr. V. A. Dodd

- (1) Demonstration of Surgical Cases.

GYNECOLOGY

Dr. Fred Fletcher and Dr. Phillip J. Reel

- (1) Pan-hysterectomy (Hydatid Mole).
- (2) Hysterectomy (Uterine myoma).
- (3) Abdomino-vaginal (Pelvic inflammation-relaxed perineum).
- (4) Hysterectomy (Salpingitis; c. endometritis).
- (5) Hysterectomy (Pelvic inflammation).
- (6) Gilliam suspension.
Perineorrhaphy (Waldo suture) (Retroversion; relaxed perineum).
- (7) Abdomino-vaginal (Pyo-salpinx; relaxed perineum).
- (8) Hysterectomy (Uterine myoma).
- (9) Abdomino-vaginal (chronic metritis-salpingitis).
- (10) Abdomino-vaginal (Pelvic inflammatory).
- (A) Display of X-ray films obtained by injection of uterus and tubes with brominized oil.
- (B) Charts showing clinical value of blood sedimentation test for acute, sub-acute, and chronic inflammation of pelvic lesions.

MEDICINE

Dr. E. J. Gordon

- (1) Aplastic anemia.

Dr. George I. Nelson

- (1) Diabetes.

Dr. Frank Wagenhals

- (1) Neurological Clinic.

Dr. Orville Baldwin

- (1) Pediatric Clinic.

Dr. Elmer Horton.

Isolation Pavilion.

- (1) Contagious Diseases.

MEDICAL SHOP AND ORTHOPEDIC SHOP

The very excellent work of this subdivision of the College of Medicine has been previously referred to in annual reports. The detail of its operation is referred to in a separate report attached herewith. During the year, in addition to the regular work of repairing apparatus and building new apparatus, the medical shop has repaired and refinished all the old furniture and equipment for Wing A of the University Hospital. This Wing has been completely remodeled and is now practically ready for operation. The saving to the University in repair funds is very difficult to estimate.

ANATOMY

F. L. LANDACRE, *Chairman*

Mr. Baker is publishing this summer three papers on "Spermatogenesis." This work has been in progress during his spare time from teaching for nearly ten years. He has been assisted during the last two years in the work by Mr. Rosof, a student assistant in the Department. Mr. Baker has ready also for the printer, a paper on "The Early Development of the Nervous System of the Urodeles."

Mr. Knouff has ready for the printer an extensive paper on "The Development of the Cranial Ganglia in the Frog." This piece of work has involved an enormous amount of labor and will be a splendid contribution to a field in which there has been little effort to modernize this problem.

The chairman of the Department has completed a paper on "Early Phases of the Nervous System in the Urodeles" and also a paper on "The Relation Between the Number of Somites and the Age in the White Rat." This paper is not quite completed but I think can be finished this summer.

Mrs. Searles' work on "The Eighth Ganglion of the Frog" is progressing but I cannot make any definite statement as to the probable time of its completion.

BACTERIOLOGY

CHAS. B. MORREY, *Chairman*

The registration in the Department of Bacteriology for 1926-1927 was as follows:

	Summer	Autumn	Winter	Spring	Totals
Agriculture	15	37	15	16	83
Arts	14	11	13	9	47
C. & A. ....	..	1	..	..	1
Dent. ....	..	..	..	67	67
Education	8	12	3	8	31
Engineering	2	1	..	11	14
Medicine	16	92	90	22	220
Pharmacy	11	25	34	17	87
Vet. Medicine	3	11	11	7	32
Graduate	11	10	14	14	49
Totals	80	200	180	171	631

Apart from the regular work of the members of the Department in class the following are some of their other activities:

Morrey—Bacterial production of oil and gas. A strong cylinder tested to 5000 lbs. pressure has been set up and filled with decomposing vegetable materials for this work. It will be necessary to run this experiment several years before definite conclusions are reached.

"Aggressins" of bacteria of bacteria. An interesting idea in this connection occurred to me and Dr. Speer and I are at work on it. The work so far appears promising.

Products of combustion on rats. I am cooperating with Dr. Hayhurst on this work.

Starin—Professor Starin has continued his work on "Botulinus." Two papers on this subject have appeared this year in the Journal of Infectious Diseases, the next paper awaits further work.

Speer—Dr. Speer has devoted a great deal of work to bacteriological investigation of the live stock of the University herds in cooperation with Dr. Shoemaker of the Veterinary Department. The results attained have been worth several times his salary.

PATHOLOGY

ERNEST SCOTT, *Chairman*

The Department has shown unusual activity during the past year. In the matter of publication there have been 11 papers prepared and presented at the various medical and scientific societies:

"Cardio-vascular-renal System in 100 Consecutive Autopsies," presented by Robert A. Moore and S. A. Hatfield at the Ohio State Medical Society meeting in May, 1927.

"The Value of Sedimentation Tests, presented by P. J. Reel at the meeting of the Ohio State Medical Society.

Dr. Scott presented a discussion on a series of interesting neurological cases at the Ohio State Medical Society meeting.

"The Newer Conceptions of the Neuroglia," presented by Robert A. Moore and Ernest Scott at the Ohio Academy of Science.

"Heart Block," presented by Moore and Scott at the Ohio Society of Clinical Pathologists.

"Pancreatic Carcinoma Occurring in a Cat," presented by Moore and Scott at the meeting of the American Society of Cancer Research, held at Rochester, N. Y.

"Polycystic Liver" presented by Moore and Scott at the meeting of the Society of Pathologists and Bacteriologists, held at Rochester.

"Gelatine Carmine Injections" and "Congenital Transposition of the Great Vessels," presented by Moore at the meeting of the International Association of Museums, held in Rochester.

"The Circulation of the Normal Kidney," presented by Moore at the meeting of the American Association of Anatomists at Nashville, Tenn.

"Methods of Vascular Injection as a Means of Demonstrating Vascular Pathology" and "Arsphenamine Poisoning," presented by Scott and Moore at the meeting of the American Medical Association held in Washington, D. C.

"Cervical Fibroids," by P. J. Reel, accepted for publication in the American Journal of Obstetrics and Gynecology.

Aside from these papers already issued, there are two additional papers which have been prepared in conjunction with students in the special course, Pathology 613: one by Mr. K. D. Way on the subject of "Myeloma" and another in conjunction with Mr. K. F. Lowry on the subject of "Familio Inheritance of Cirrhosis of the Liver."

In addition to these publications the Department, largely through the activities of Robert A. Moore and Roy H. Clunk, prepared an exhibit entitled "Pathology of the Kidney," which was shown at the meeting of the American Medical Association held in Washington, D. C. This exhibit received a large amount of very flattering comment from those who saw it and received one of the five "Awards of Merit" at the meeting. This exhibit included several new features in methods of mounting and labelling and also included numerous specimens illustrating the vascular injection methods which have been carried on in the Department for the past two years. It is the present plan that the pathology of the kidney will be continued throughout the next year and that an exhibit illustrating various phases of experimental nephritis will be available for display by the end of next year.

PHYSIOLOGICAL CHEMISTRY

PUBLICATIONS

A Note on the Use of Magnesium Perchlorate Trihydrate (Dehydrite) and Asbestos-sodium Hydroxide (Ascarite) in Gravimetric Metabolism Determinations, for Water and Carbon Dioxide Absorption. M. O. Lee and J. B. Brown. *Jour. Biological Chem.* Vol. 73, 1927, p. 69.

The Effect of Hydrogen Peroxide on Yeast Growth and Fermentation by J. B. Brown and H. L. Wikoff. Appeared in the third number of the present volume of the *Annals of Applied Biology* (Cambridge University Press).

The Effect of Hexyl Resorcinol on Yeast Growth and Fermentation. Appears in August Number of *Annals of Applied Biology*, J. B. Brown and H. L. Wikoff.

The following papers are being prepared for publication:

The Changes Produced in the Depot Fat of White Rats by the Forced Feeding of Whale Oil, J. B. Brown and A. L. Rawlins.

The Effect of Hexyl Resorcinol on the Digestive Enzymes, J. B. Brown and J. L. Tanner.

The Rate of Disappearance of Adrenalin from the Alimentary Tract of the White Rat, J. B. Brown and W. C. Lacock.

PHYSIOLOGY

R. J. SEYMOUR, *Acting Chairman*

The progress made in the research program during the year is such as to give all concerned profound gratification. Practically every member of the department staff has published, or has in press, one or more papers concerning some phase of his investigation. Other papers, prepared under the direction of staff members, have been published by four advanced and graduate students. At the annual meeting of the Federation of Biological Societies, six representatives of this department presented papers that commanded unusual attention. The research program outlined for the coming year promises equally satisfactory results.

PUBLICATIONS

R. G. Hoskins (with Marvin Gans):

"The Fatigability of Castrated Rats," *Endocrinology*, Vol. 10, 1926.

R. J. Seymour:

"The Effect of Cutting Upon the Rate of Hair Growth," *A. Jour. of Physiol.* Vol. 63, 1926.

F. A. Hitchcock:

"The Effect of Luxur Consumption of Meat Upon the Voluntary Activity of the Albino Rat," *A. Jour. of Physiol.* Vol. 69, 1926.

"The Effect of Meat Feeding on Nursing Mother Rats and the Rate of Growth of Their Young," *Am. Jour. of Physiol.* Vol. 69, 1926.

(With A. L. Rawlins) "The Effect of the Amount of Protein in the Previous Diet on Nitrogen Excretion of the Albino Rat During a Fast." 1926.

M. O. Lee:

"The Effect of Low Environmental Temperature on the Oestrous Cycle in the Rat." *Am. Journ. of Physiol.* Vol. 68, 1926.

(With J. B. Brown)—"The Use of Magnesium Perchlorate Trihydrate and Asbestos Sodium Hydroxide for Water and Carbon Dioxide Absorption." *Jour. Biol. Chem.*, Vol. 52, 1927.

"Basal Metabolism of the White Rat During the Oestrous Cycle," *Proceedings, American Physiological Society*, June, 1927.

R. R. Durant:

"An Improvised Metal Cannula," *Jour. of Lab. and Clin. Med.* June, 1927.

"Blood Pressure in the Rat," *Proceedings, A. Physiol. Soc.* June, 1927.

E. P. Durrant:

"The Effect of Sub-cutaneous Injection of Corpus Luteum Extract on Voluntary Activity in the Female White Rat," *Endocrin.* Vol. 10, 1926.

"The Effect of Hysterectomy on the Oestrous Cycle of the White Rat," *A. Jour. of Physiol.*, Vol. 66, 1926.

DEPARTMENT OF PUBLIC HEALTH

EMERY R. HAYHURST, *Chairman*

INSTRUCTION

Assistant Professor Norma Selbert, B.S., M.A., R.N., was on service during the Summer Quarter 1926 but was given leave of absence for the Autumn, Winter, and Spring Quarters to attend Yale University for the purpose of pursuing graduate work. Mrs. Selbert's place was taken by Miss Catherine M. Forrest, who was given the same rank and salary. Miss Forrest gave a number of public addresses during the year and evaluated credits for a number of graduate nurses who applied to the University for advanced standing.

Assistant Professor James S. Wilson in addition to his regular courses devoted some time throughout the year to his duties as Commandant of General Hospital No. 99, Organized Reserves, U. S. A. (Medical College Unit). During the Spring Quarter of 1927 Dr. Wilson arranged an individual instruction problem at the State Street Dispensary where each student was required to report in full the preventive medical aspects of a given patient registered in the Dispensary. Also during this Quarter each student was required to make a complete health examination upon the standard blank provided by the American Medical Association, also to purchase the instruction book printed for that purpose by the American Medical Association.

Professor Emery R. Hayhurst acted as Chairman of the Department and in addition to teaching the regular courses gave a number of public and scientific addresses throughout the year.

PUBLICATIONS

As heretofore certain members of the staff of the Department of Public Health have engaged in publications in the field, public addresses and in other contacts with the public and with scientific bodies. During the past year these are summarized as follows:

Assistant Professor Norma Selbert—Three reviews and three or four papers as noted in Publications of the Teaching Staff.

Professor Hayhurst—Three reviews, two papers, and a book, "Personal Health," 279 pages, 65 illustrations, McGraw Hill Book Co. Also Associate Editor, *Jour. of Industrial Hygiene* and Assistant Editor, *Amer. Jour. of Public Health*. Names of publications and reviews are to be found in Publications of the Teaching Staff.

RESEARCH

Dr. Hayhurst directed research in connection with various projects including some outside agencies and business organizations with the valuable cooperation and assistance of various departments, instructors and students in the University as follows:

Pneumonia vs. Combustion Products—Grant 87, American Medical Association, \$500. Cooperation of the Department of Bacteriology (Prof. Chas. B. Morrey, Dr. R. F. Jukes, Mr. G. W. Bond, instructor, and Mr. Andrew Kardos, graduate student); the Department of Metallurgy (Dr. D. J. Demorest and assistants); and the State Department of Health Laboratories

(Mr. Leo Eye). This research which has been on for over a year will require possibly another year to complete.

Silicosis in Amherst Quarrymen—Grant 88, American Medical Association, \$1000. Also appropriations and assistance as follows: \$300 from the Graduate Council; \$300 from the Ohio Public Health Association (not yet used); loan of \$2500 of X-ray apparatus from the Kelly-Koett Mfg. Co., Covington, Ky.; several days technicians' time, College of Medicine; use of Starling-Loving Hospital's X-ray diagnostic boxes for several months; field services of representatives of the Kelly-Koett Mfg. Co. and the Eastman Kodak Co.; full cooperation of the quarry managers concerned (about 1000 hours of employees time, etc.); salary and expenses of Dr. D. J. Kindel paid by the State Department of Health (estimated at about \$600). Research practically completed.

Heart Disease in Ohio, Also Columbus—Columbus Community Fund, The Council of Social Agencies and City Health Commissioner Dr. James A. Beer, Research completed.

Dental Clinics for Columbus—Columbus Community Fund, Council of Social Agencies and Columbus Dental Society. Research nearly completed.

Death Rates of Toledo vs Columbus—Minor Thesis for Miss Ruth E. Moore, graduate student. Research completed.

Results Obtained in Nutrition Classes, Women Students, Ohio State University—Minor Thesis for Miss Ruth L. White, graduate student. Research about completed.

"Thylox" toxicity (arsenic problem)—The Koppers Construction Co. Mellon Institute, appropriation \$4000 and traveling expenses (Dr. Clayton S. Smith, Dr. D. J. Kindel and Dr. E. R. Hayhurst). Valuable assistance of Department of Physiological Chemistry (Dr. C. S. Smith and assistants). Also valuable assistance of Dr. D. J. Kindel. Research to be completed December, 1927.

"Vulcalock" toxicity (benzol problem)—The B. F. Goodrich Co. \$500 and expenses. Cooperation with Professor James R. Withrow, Department of Chemical Engineering, whose services are paid from a separate fund. Valuable assistance of State Department of Health Laboratories (Mr. Fred Berry and Mr. Leo Eye). Research about completed.

Tetraethyl Lead Toxicity—Ethyl Gasoline Corporation, \$500 and expenses. Work with U. S. Bureau of Mines and U. S. Public Health Service. Research completed.

Differentiation Between Electrocution and Trauma of Head—Hartford Fire and Accident Insurance Co., \$700 and expenses. Research completed.

Physiological Effects of Radiant Energy in Radiant Gas Stoves—The J. H. Grayson Mfg. Co., appropriation \$1000-\$1500. Cooperation with the Department of Physics, Professor Alpheus W. Smith and Mr. Earl D. Wilson. Research arrangements now being made.

Consultant's Services, Industrial Hygiene—Several minor researches. Salary \$1600 and traveling expenses, Ohio State Department of Health.

UNIVERSITY HOSPITAL

S. A. HATFIELD, Superintendent

During the past year with the increase in the clinical beds, it has been possible to offer a much better clinical teaching service than has been possible heretofore. The clinical beds have been filled practically all of the time during the teaching quarters and this has made it possible for our senior students to see and work up a number of cases while assigned here on ward clinic duty. The additional beds in General Medicine and Obstetrics particularly, have made the whole service much better balanced.

The interne service has been most satisfactory. While it was necessary to use some undergraduate service on account of resignations, yet the service to the hospital has been good. The Staff has cooperated well in seeing that our internes have had a good service and that their service was properly supervised.

The service of one full time man for maintenance and repair work has been quite satisfactory. We have had but little difficulty with any of our equipment being out of commission for any length of time.

The service in the dietetic department has been very satisfactory. We have had to use some student help in the department and in various capacities during the year. This help has been compensated for by serving meals for the time they were employed. The per capita cost per day for the year was \$.599. I am submitting herewith a complete report of the department.

As has been indicated in a previous report the laundry service has not been adequate.

The length of time required for laundry service very materially increases the amount of linens issued.

The audit of our books just completed shows our books to be in excellent shape. The following report is submitted:

Total cash received	\$72,218.75
Total Amount Charged to Charity (\$2.00 per day)	38,486.00
Total amount outstanding	17,140.71

I am also submitting herewith the reports of the record department and the report of the Training School for Nurses.

TRAINING SCHOOL FOR NURSES—UNIVERSITY HOSPITAL

LUCY V. AILER, *Superintendent of Nurses*

The work of the past year has been little different from that of the previous years. We have been preparing for our expansion by adding to the numbers of our student nurses.

There have been several changes in our staff of supervisors which are as follows: Miss Ryan resigned to care for her father who was ill and Miss Brighton who replaced her has resigned because of ill health, as did Mrs. Bright. Miss Hall accepted a position in Chicago. Miss Westervelt felt that she could no longer remain on night duty as she had been Night Superintendent for over two years. The positions thus vacated have been filled by Miss Berger, Miss Burket and Miss Cassill and one position is still open.

The census of the nursing department is as follows:

Superintendent of Nurses	1
Assistant Superintendent of Nurses	1
Floor Supervisors	13
Night Supervisors	2
	—
	17
Number of Student Nurses July 1, 1926	59
Number of Student Nurses entered during year	38
Number of Student Nurses transferring to our school	2
Number of Student Nurses completing course	12
Number of Student Nurses Withdrawing, temporarily	4
Number of Student Nurses withdrawing	15
Number of Student Nurses dismissed	2
Number of Student Nurses reinstated	5
Number of Student Nurses in five year course in hospital	1
Number of Student Nurses remaining June 30, 1927	72

Resignations among the student nurses have been due to their own ill health or that of their parents, for whom they have had to care, inability to carry their class work and two were married. Four have been reinstated.

In order to accommodate last Autumn's Class, two floors were leased in the house adjacent to South Hall. This provided twenty-four spaces for students and all were used. During the winter an enclosed sleeping porch and sun parlor were added to the house at 190 West Eleventh Avenue. The sleeping porch provided space for eight more students.

At this time we are planning for our Autumn class which should be larger than that of last Autumn. We now have twenty-five applications which have been accepted and unless we are able to make some further adequate adjustments we shall be unable to accept more. This number is by no means adequate to open the new wing and allow for a selection of students. It will necessitate keeping inferior students in our school in order to care for our patients. Complaints regarding nursing care come from patients, usually because of carelessness on the part of these inferior students. We are still hoping that the time is not far in the future when an adequate residence for the nurses will be provided. Some improvements have been made in the reception room at South Hall. The walls and some of the furniture were redecorated, new pieces added, including electric light fixtures, furniture, curtains and rugs. Many books and magazines have also been donated by the Starling-Loving Women's Club and the University Women's Club and by the Church Periodical Club of the Episcopal Church.

Cooperation on the part of the staff regarding the nurses class work has been excellent during the past year.

ANNUAL REPORT

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RECORD DEPARTMENT—UNIVERSITY HOSPITAL

LEEVELYN GILLAM, *Record Clerk*

Number of patients admitted during the period, 3747, divided into the following groups: Males, 1909, Females, 1838; Black, 529, White, 3218; Clinical, 1730, Private, 1125; Out Patients, 892.

Number of patients discharged in each department and their condition on discharge:

GENERAL MEDICINE		GENERAL SURGERY	
Recovered	212	Recovered	499
Improved	253	Improved	319
Nonimproved	101	Nonimproved	56
Died	70	Died	49

GYNECOLOGY		OBSTETRICS	
Recovered	198	Recovered	268
Improved	24	Improved	14
Nonimproved	27	Nonimproved	28
Died	19	Died	3

EYE, EAR, NOSE, AND THROAT	
Recovered	368
Improved	74
Nonimproved	23
Died	1

REPORT FROM X-RAY DEPARTMENT

Total number examinations	1851
Total number re-examinations	335
Total number treatment cases:	
Old	68
New	78

REPORT FROM OPERATING ROOM

Major operations	688
Minor Operations	309
T. & A.	344
Casts	20
Blood Transfusions	27
General Anesthetics	987
Local Anesthetics	197

REPORT FROM OBSTETRICAL DEPARTMENT

Delivered in private homes	242
Delivered in Institutional homes	129
Delivered in Hospital	252
Maternal deaths	2
Number of births:	
Male	112
Female	138
Illegitimate:	
Male	15
Female	9
Number of deaths (infants):	
Premature	12
Stillborn	17
Full term	5

Operations:

Versions	15
Forceps, low	66
Forceps, mid, high	5
Repairs	86
Episiotomy and repair	42
Caesarian	2
Abortions	3
Breech	14
Placenta Praevia	2
Craniotomy	1

REPORT FROM LABORATORY

Urine—General	7904
Urine Culture	45
Urine Phenol phthalin	679
Urine Mosenthal	5
Urine Tuberculosis	333
Blood Counts (including platelet counts)	2391
Blood Culture	37
Blood Typing	93
Blood Matching	52
Blood Coagulation and Bleeding Time	369
Blood Chemical	610
Blood Parasites	2
Blood Sedimentation	366
Blood Sugar Tolerance	5
Spinal Fluid Chemical	62
Spinal Bacteriological	74
Sputum—Tuberculosis	82
Sputum—Typing	1
Gastric—Single	25
Gastric—Fractional	2
Liver Function—Icterus Index	11
Feces	87
Milk	2
Bacteriological—	
Eye	34
Ear	5
Nose and Throat	118
Tonsil culture	2
Pus	59
Vaginal and cervical	92
Urethral	12
Transudates	
Exudates	19
Widal	26
Vaccines	6
Tissues—Gross	1150
Tissues—Microscopic	1074
Wassermann Tests—	
Blood	1305
Spinal fluid	73
Kahn test	3
Salvarsanized serums	9
Basal metabolism	114
Animal inoculations	0
Von Pirquet skin test	1
Prothrombin	3
Fragility	1
Total	17,343

BOOKKEEPING DEPARTMENT—UNIVERSITY HOSPITAL

LOUISE TUTTLE, *Bookkeeper*

Total cash received	\$72,218.75
Total amount charged to charity	38,486.00
Total amount outstanding	17,140.71

The charity accounts are figured at the rate of \$2.00 per day.

DIETARY DEPARTMENT—UNIVERSITY HOSPITAL

DOROTHY NEWTON, *Dietitian*

The per capita cost of \$.599 per person per day includes as well as the raw food used for meals for patients and nurses the following:

- (a) Food sold to people connected with the hospital.
- (b) All food served at parties given by the nurses and other groups connected with the hospital. The refreshments were paid for in some cases.
- (c) Materials used by the dietitians in making candy for a sale. The proceeds of this sale were used to purchase decorations for dining rooms and for the patients' trays at Christmas time. The cost of all raw materials was paid for.
- (d) 11,702 meals served to patients on special diets.
- (e) All food materials used in the laboratory work for the nurses' classes in dietetics.

COLLEGE OF PHARMACY

Dean, C. A. DYE

The enrollment has decreased somewhat from that of former years, but as pointed out in our report for last year, this was to be expected as a result of the advanced requirements we are now demanding. Considering however the present standards we feel that the enrollment is maintaining a satisfactory level and that we may soon expect to note a gradual increase. One of the very gratifying features of the enrollment is the fact that we have had an increasing number of students who have come to us with from one to four years of previous college training. An other beneficial result of the higher standards is to be observed in the better classroom and laboratory work done by the students. This, in a great measure, has been due to the smaller classes and the fact that the instructors have been able to give more personal attention to the students and to supervise more closely the laboratory work.

To those of us who have long worked for higher standards for pharmacy it is most gratifying to report that since the College adopted the four year requirement four other university schools have gone on the same basis. In addition there has also been a rapidly growing sentiment for the same standards in the American Association of Colleges of Pharmacy and the National Association of Boards of Pharmacy. The same is also true of various state associations where some have already gone on record as not only favoring the minimum four year requirement, but recommending its adoption at as early a date as possible. In view of these statements and since the College was the first to adopt such standards it is to be hoped that we may soon be provided with new and modern facilities, facilities that will be in keeping with the standards of training we now demand and which have long been needed.

That we are achieving some measure of success in our work is, we believe, evidenced by the fine record made by our graduates in the state pharmacy examinations. In three different examinations, for Registered Pharmacist, our graduates have taken highest honors and for the same number of times the first honors in the Assistant's examination. In addition we have received numerous reports, and words of commendation, relative to the fine spirit our graduates show toward their work as well as the general success they have achieved in the various fields they have entered.

During the past year several minor changes have been made in the curriculum which we believe will materially add to the training now given. In short every effort is being made to not only render the work more efficient but to bring it up to the latest and best methods of pharmaceutical instruction.

In order that we might keep in close touch with the work and problems of the freshmen students we have, during the year, divided them into small groups and assigned each group to one of the instructors as an adviser. In carrying out the plan the students are required to report once a week as to the condition and progress of their work. In such event help is needed or encouragement is indicated this is given by the instructor. The plan has proven quite successful in helping those having difficulty with their work before they get hopelessly behind or discouraged.

Following the practice of several years standing we have, the past year, provided the State Board of Pharmacy with the laboratory space and the

equipment necessary for carrying out the practical part of the examinations. In this way we have made it possible for the Board of Pharmacy to conduct one of the best examinations given by any of the states.

RESEARCH

As pointed out in previous reports, on account of the large number of students and the heavy teaching schedule of the instructors, it has been next to impossible for them to devote much time to or to undertake any serious or lengthy studies. Now however that the number of students has been somewhat reduced and we have been able to make adjustments in their schedules they have begun several studies in connection with Pharmacopoeial and National Formulary revision problems. It is to be hoped that these may not only be continued but that others along these and related lines may be undertaken.

ACTIVITIES

In order that they might keep in touch with present-day drug store problems and practices, some of the instructors have been doing relief work in a number of stores in Columbus. This experience has been of the greatest value to them in their teaching since it enables them to bring to their students the methods and experiences gained by direct contact and study of these problems in a modern up-to-date drug store. At the same time it enables them to refute the oft made statements that the majority of the teachers in pharmacy schools have never had any practical experience and as a consequence know nothing of the every day problems encountered in the store.

Mr. Brown has served as one of the abstract reporters, engaged in abstracting the various articles appearing in the technical and trade journals devoted to pharmacy, chemistry and related subjects, for the Year Book of Pharmacy, a publication issued by the American Pharmaceutical Association.

In addition to the usual routine administrative duties we have carried a full teaching schedule and at the same time taken an active part in the activities of the various pharmaceutical associations. In this work we have served on several committees of the American Association of Colleges of Pharmacy. Also represented the same association as a member of the committee appointed to visit and report on the College of Pharmacy of Duquesne University, Pittsburgh, Pa. In addition we have attended the meeting of the State Pharmaceutical Association at Cedar Point, the meetings of the American Association of Colleges of Pharmacy and the American Pharmaceutical Association at Philadelphia and the Conference of the Boards of Pharmacy and the Colleges held in Indianapolis.

At this time I wish to pay tribute to the fine spirit of loyalty and cooperation exhibited, at all times, by the instructional staff of the Department and the College. At all times they have been enthusiastic and earnest in their efforts and have given generously of their time and energy to make the work a success and what ever progress we have made has been largely due to their efforts.

In conclusion permit me to express my very great appreciation to you and the administrative officers, for the very helpful cooperation and support received during the year and without which the work of the College would have suffered.

COLLEGE OF VETERINARY MEDICINE

Dean, DAVID S. WHITE

The only extension attempted by the College was the Veterinary Conference held March 23, 24, and 25, 1927. The object of the Conference is to afford to the veterinary profession an opportunity to obtain the latest knowledge concerning the diseases of animals. It is believed that the University through its Veterinary College best can serve the people of Ohio, and of other states, through the veterinary profession. What helps the profession, helps the live stock owners and indirectly all of the people. It is not possible for the University to deal with the animal owner directly. It would be a physical impossibility to reach the owners of animals unless a very expensive and elaborate mechanism was devised for the purpose. Furthermore, the average layman has not the background to receive and apply intelligently the information. The only way the layity can be dealt with in professional matters is through the profession concerned. If each professional and technical school of the University took this attitude, which in most cases they do, in the aggregate the University would be enabled to render a magnificent service to all of the people. In this spirit it is proposed to hold annually at the Ohio State University a Veterinary Conference which will bring to the campus the most intelligent and progressive element of the profession. Two of these conferences have already been held. Each was unusually successful. The total registration for the three-day conference held last March was two hundred and eighty-six, which exceeded the registration of the conference of the year before by sixty-one. Eighty-one per cent of the veterinarians in attendance was from Ohio, the remaining nineteen per cent from seventeen other states. Of the two hundred and eighty-six attending, sixty-five per cent were engaged in general practice, the remaining thirty-five per cent divided among the other phases of veterinary service. Nearly half of the states now hold veterinary conferences, usually at the land-grant colleges. It is recommended that sufficient funds be appropriated not only to conduct the conference as at present, but to permit of the collection and printing of the proceedings in order that each person in attendance, and others interested, may have them in more permanent form.

VETERINARY RESEARCH

The most serious weakness in the whole mechanism of veterinary training at Ohio State University is the lack of support given original research in the study of the control and eradication of animal plagues. In the thirty-four years of my connection with the veterinary department I remember no instance where a single dollar was appropriated for original veterinary research. At all great universities research goes hand in hand with teaching. There can be no progressive scholarship without research. A university which neglects research must in time pay the penalty of degenerating into a mere academy of learning, a place where unenthusiastic teachers impart only second-hand information. Last year the veterinary division of Iowa State College was granted \$40,000 for original investigation on the experimental farm of that institution. At Cornell University a sum nearly as large is devoted to this

purpose, and at the University of Pennsylvania there is a close cooperation between the veterinary college and the laboratories of the state live stock board. In this connection I will reiterate what I wrote in a former report: That the farm and buildings at present used jointly by the State Board of Agriculture and the State Agricultural Experiment Station, located near Reynoldsburg, Ohio, be turned over to the Ohio State University where they may be made use of in veterinary education and research. By converting this splendid plant, which has fallen almost into disuse, into the veterinary experiment station of the Ohio State University, it would become one of the state's most valuable assets.

GRADUATE SCHOOL

Dean, WILLIAM MCPHERSON

PUBLICATIONS

During the year the following publications were approved by the University Press upon the recommendation of the Graduate Council:

"A Study of the Project Method in Education," by Harold B. Alberty.

"Rural Recreation in Two Ohio Counties," by C. E. Lively.

"Observations on the Grasslands of the Central United States," by John H. Schaffner.

"International Rivalries in Manchuria," by Paul H. Clyde.

There was also published a pamphlet giving "Information Concerning Persons Granted the Degree of Doctor of Philosophy." In connection with this publication it is of interest to know that from the time of organization of the Graduate School in 1911 until January 1st, 1927, 201 Ph.D. degrees were conferred by the University. Of those receiving this degree, 117 are now teaching in colleges, universities and normal schools, and 76 are occupying research positions in either government or industrial laboratories.

THE GRADUATE SCHOOL LECTURES

The Graduate School was able to present during the year the following very noteworthy course of lectures:

Dr. Surendranath Dasgupta, Professor of Philosophy in Presidency College, Calcutta, India. Subject of lecture: "Reality in the Vedanta."

Dr. Helmuth Von Glassenapp, Professor in the University of Berlin. Subjects of lectures: "German Thought of Today"; "German Education and Its Problems."

M. Edouard Champion, Paris publisher, Paris, France. Subjects of lectures: "Anatole France Intime"; "Marcel Proust, the French Novelist."

Dr. Edward Sapir, Professor of Sociology and Anthropology of the University of Chicago. Subject of lecture: "The Psychological Study of Primitive Cultures."

Dr. Paul Douglas, Professor of Sociology in the University of Chicago. Subject of lecture: "Family Allowance System as a Solution of the Living Wage Dilemma."

Dr. Ernst Jäckh, Founder and President of the Institute of Political Sciences, Berlin, Germany. Subject of lecture: "The New Germany."

Dr. Hugh S. Taylor, Professor of Chemistry, Princeton University. Subjects of lectures: "The Mechanism of Activation of Catalytic Surfaces;" "Photo-Chemistry and Catalysis."

Dr. E. M. East, Professor of Genetics in the Bussey Institution, Graduate School of Applied Biology, Harvard University. Subjects of lectures: "The Concept of the Gene"; "The Biology of the Immigration Problem."

Dr. Carl Schneider, Professor of Psychology, Wittenberg College, delivered a series of five lectures on "Gestalt Psychology."

Dr. C. R. Morris, Professor of Philosophy, Balliol College, Oxford, England. Subjects of lectures: "The Meaning of Democracy in England"; "The Aristotelian Tradition in Philosophy."

Dr. Jon Alfred Mjoen, Chairman of the Consultative Eugenics Commission, Norway. Subject of lecture: "Genius as a Biological Problem."

Dr. Hendrik A. Lorentz, Professor of Physics, University of Leyden, Holland. Subject of lecture: "Motion of the Earth and the Theory of Relativity."

Dr. Arthur Haas, Professor of Physics, University of Vienna, Austria. Subject of lecture: "The Atom as a Source of Energy."

Dr. Robert A. Millikan, Director of the Norman Bridge Laboratory of Physics, California Institute of Technology, delivered a series of twelve lectures on "Twentieth Century Discoveries in Physics."

Dr. William E. Hocking, Professor of Natural Religion, Moral Philosophy, and Civil Polity in Harvard University. Subjects of lectures: "The Idea of Right in Law and Morals"; "The Self."

Dr. James R. Angell, President of Yale University. Subject of lecture: "Scholarship as a Career."

Dr. C. Judson Herrick, Professor of Neurology, Chicago University. Subject of lecture: "The Spiritual Life of a Mechanist."

Professor Navarro Tomas, Central University, Madrid, Spain. Subjects of lectures: "Essential Characteristics of Spanish Phonetics"; "The Syntactical Value of Intonation in Spanish Pronunciation."

Dr. Clarence E. McClung, Professor of Zoology, University of Pennsylvania. Subject of lecture: "The Mechanism of Heredity."

Every lecturer included in the above course is a scholar of world renown. In addition to our own country, it will be noted that India, Germany, France, Austria, Holland, England, Norway, and Spain were represented by one or more of the lecturers. Two of the lecturers, namely Professor Hendrik Lorentz and Professor Robert A. Millikan, were former recipients of the Nobel Prize, universally regarded as the highest honor which can come to any scientist. The most notable of all the lectures was the course given by Professor Millikan. These lectures were given in the University Chapel and the auditorium was practically filled at each lecture. The general subject of the lectures together with Dr. Millikan's fascinating method of presentation held spell-bound the specialist and amateur alike.

TRAINING IN RESEARCH WORK

There is always certain to be some discussion as to the value of much of the research work carried on or attempted in any university. It will have to be granted that in every university some are attempting to do research work that have neither the ability nor the training to do this effectively. Of course, the question might be raised as to whether or not such persons properly have a place on a university faculty, but aside from all this it is self evident that any one who tries to evaluate research work in terms of dollars and cents is attempting the impossible. Moreover, it must be kept in mind that the University is not only a place where effective research work is carried on; it is also a place *where persons are trained for such work* and this training is one of the most important functions of the University. Of course, there will be failures, just as there are failures in every other field of work, but these failures must be considered along with the successes in any attempt at the evaluation of work accomplished.

THE GRADUATE SCHOOL AND THE COLLEGE

More and more the real character of any university is coming to be judged by the character of its Graduate School. The importance of the Graduate School lies not only in the scholarly work that is accomplished and in the training of young men and women to engage in scholarly work, but it has a fine influence upon the work of the colleges which together with the Graduate School compose the University. It is difficult to overestimate the indirect influences exerted by the presence on the University campus of a relatively large number of young men and women of the highest type of scholarship, each one enthusiastic in his work. Their enthusiasm for all the finer things that constitute the real soul of a university, is reflected throughout the entire student body and introduces an element which is too often sadly lacking in our undergraduate colleges.

It is natural that in our state universities the development of the college should be first stressed. However, one of the greatest advances made in recent years in the cause of education, has been the development of graduate work in our state universities. Our own University has made notable progress, but there is still much to be desired. Ohio is known for its many colleges. It is deserving of at least one outstanding graduate school.

REVIEW OF THE LECTURES RELATING TO PHYSICS GIVEN UNDER THE AUSPICES OF THE GRADUATE SCHOOL, PRESENTED BY ALFRED A. COLE, PROFESSOR OF PHYSICS, IN THE OHIO STATE UNIVERSITY.

Recent developments in the field of physics have been so rapid and of such fundamental importance that it is difficult even for special students in that field to keep in touch with the latest developments. Workers in other branches of science and scholars whose primary interests are altogether outside that field welcome an opportunity to learn at first hand from those who are real authorities, regarding present views concerning the nature of energy, matter, and electricity. Therefore the Graduate School has rendered a conspicuous service to the University and to the State by providing during the Spring Quarter a number of outstanding lectures on recent advances in physics.

The first of these was given by Professor Hendrik A. Lorentz of the University of Leyden, Holland. He was the recipient of the Nobel prize in Physics in 1902 in recognition of his contributions to the electron theory, especially in the prediction and mathematical analysis of the Zeeman effect. As he is one of the most distinguished mathematical physicists of the world and also has a rare gift of popular exposition, this lecture was attended by a large number of physicists and chemists from neighboring colleges in Ohio. He spoke upon "The Motion of the Earth and the Theory of Relativity." He received an attentive hearing because his own contributions to the relative motion of the earth and the ether had been the starting point of the later theories of Einstein. Professor Lorentz's simple, concrete and intimate presentation of this difficult subject was a masterly performance and delighted his large audience of about three hundred. His engaging personality and his keen interest in the scientific work now being done on the campus made a unique and lasting impression on the University Community.

Dr. Arthur Haas, Professor of Physics in the University of Vienna gave the second lecture of this series about a week later. His subject was "The Atom as a Source of Energy." The lecture included a consideration of the relation of energy to mass, the disintegration of matter in the fixed stars, and the possibility of making available for the uses of man the great stores of

atomic energy which recent researches in physics and chemistry have shown to exist. Both of these foreign scientists had an exceptional command of English, so that they were able to make the difficult material of their lectures easy of comprehension.

But the most notable result of the enterprise of the Graduate School was bringing Dr. Robert Andrews Millikan, Director of the Norman Bridge Laboratory of Physics of California Institute of Technology, for a series of eleven lectures on "Twentieth Century Discoveries in Physics." This was an outstanding event of the University year, and all things considered, probably the most notable series of lectures we have ever had on the University Campus. We have had many opportunities to hear conspicuous scholars lecture once or twice on some important topic, but this is the first time we have been privileged to have a connected and systematically developed series of ten or more lectures dealing with recent advances in some major field of scholarship. The subjects of the eleven lectures were as follows:

"The Birth of Two Ideas"; "The Discovery of the Electron"; "Seeing the Invisible"; "Gulliver's Travels in Science"; "Light Darts"; "Stripped Atoms"; "Birth of a Light Ray"; "Cosmic Rays"; "Relativity Inside an Atom"; "Pulling Electrons Out of Metal"; "Spectroscopic Prediction."

The lectures were widely attended by undergraduates, graduate students, and members of the faculty. They were of great interest to many not primarily interested in scientific topics. Students and professors from neighboring colleges availed themselves of this unusual opportunity to hear an account of the progress and influence of "the modern physics," presented by a scholar who has himself contributed much to these advances and has stimulated many others to engage in the quest for scientific truth. Many who listened to these lectures obtained a new and vivid idea of the meaning of modern physics and its fundamental connections with other branches of knowledge. Professor Millikan's magnetic personality and the contagion of his own vivid interest in his great topic did much to impress his audience and hold them through the long series to the very end.

In his opening lecture Dr. Millikan showed how Galileo's new method of appealing to nature by carefully planned experiments (instead of following the teachings of Aristotle) worked a veritable revolution in human thought; revealing a universe of orderly development, a world that man can learn to understand, and a Creator who works through law.

The second idea referred to in the title of the lecture was that electricity is made up of small units, all exactly alike and contained in the atoms of every known substance.

The second lecture told how Sir Joseph Thomson and his co-workers isolated the electron and studied its properties. They showed that it had a definite, but very minute mass, only one eighteen hundredth that of the lightest known atom. He told the story too of how he himself labored for years to perfect his famous oil-drop method of measuring the electrical charge on an electron, until he knew its value to one part in a thousand.

Topics discussed in subsequent lectures were: The discovery of the invisible X-rays and the role they played in revealing the nature of electrons and the structure of atoms, the method of driving electrons by strong electric fields until they gained velocities nearly equal to that of light, the astounding discovery that this caused an increase in their masses, and the question whether atoms contain anything besides electrons and positive nuclei. He recalled the

enormous commercial developments, amounting to billions of dollars annually, based upon the 3-electrode electron tube. He told the story of the discovery of radio activity and radium, a story of exploding atoms and transmutation of elements. He discussed the Einstein equation which declares the possibility of changing mass into energy, and the joy with which astronomers had seized upon the idea, in order to explain the enormous radiation which the sun has maintained for so many thousands of years, apparently without loss. Then he discussed the failure of the wave theory of light to explain the fact that ultra violet light can snatch electrons out of negatively charged metals, and outlined the quantum or "light dart" theory. The Bohr theory of the atom came in for consideration, the way the electron jumps from orbit to orbit of an atom to produce the line spectra characteristic of particular kind of substance. He described how Mr. Bowen had stripped the outer electrons from various kinds of atoms by means of powerful sparks in vacuo. This results in doublet lines in their spectra exactly as predicted by Sommerfeld, and enabled them to compute how many of the electrons lie in the inner shell which protects the nucleus. This number—two in every case—corresponds with the requirements of radio activity experiments.

One of the last lectures was given to cosmic rays, which have recently been thoroughly studied by Dr. Millikan. Fifteen years ago it had been shown that radiation of great penetrating power similar to the gamma-rays of radium exist in the upper atmosphere. In 1922 he had made measurements with sounding balloons carrying instruments and shown that these radiations had even greater penetrating power than had been hitherto found. Later experiments on Pike's Peak were tried in 1923 without decisive results. In 1925 he made elaborate experiments in the waters of a deep, snow-fed lake high up on Mt. Whitney in the Sierras, at an elevation of nearly 14,000 feet; the instruments being sunk to various depths down to 67 feet. These experiments showed a radiation of such extraordinary penetrating power that 50 feet of water—corresponding to six feet of lead—were required to absorb it. (The most penetrating X-rays used in our hospitals cannot pass through half an inch of lead.) Comparison experiments were then made in another lake 6700 feet lower down. The results of the two series of experiments taken together showed definitely that the penetrating radiation comes wholly from outside the atmosphere. It came equally from every direction and not, as a German investigator had found, with a maximum intensity from the direction of the Milky Way. The frequency of this radiation was calculated from the penetration to be about fifty times that of the gamma-rays of radium (which have the highest frequency known among all radiation of earthly origin).

Respectfully submitted,

A. D. COLE

ENTRANCE BOARD

BLAND L. STRADLEY, *University Examiner*

STATISTICS

The grand total of admissions to the University for the school year 1926-27 was 6133. This number includes inter-college transfers and is an increase of 340 over the grand total for the year 1925-26. This is about the expected normal increase. This increase does not fall in the freshman class but in the number of students entering with advanced standing, the number of graduate students, and other classifications. We admitted 757 students to the Graduate School in 1926-27 as compared with 662 in the year 1925-26. We admitted 949 students with advanced standing this year as against 925 last year. Three thousand and twenty-two students were admitted during 1926-27 from accredited secondary schools and 3058 during the year 1925-26. 26.1%, or 789 high school freshmen came from the local high schools, while 20%, or 641, came from local high schools in 1925-26.

It appears from these figures that we have now reached a normal rate of growth and a gratifying increase in the number of upper classmen and graduate students.

COMPARATIVE ADMISSION STATISTICS

	New Students		Transfers		Totals	
	1926-27	1925-26	1926-27	1925-26	1926-27	1925-26
Agriculture	332	340	59	50	391	390
Agriculture-Education	0	0	0	1	0	1
Agriculture-Veterinary Medicine	0	0	0	2	0	2
Applied Optics	5	12	3	2	8	14
Arts	1313	1307	174	165	1487	1472
Arts-Agriculture	0	0	0	1	0	1
Arts-Commerce and Administration.....	0	0	1	1	1	1
Arts-Dentistry	0	0	1	0	1	0
Arts-Education	23	17	46	63	69	80
Arts-Engineering	0	0	1	4	1	4
Arts-Law	0	0	25	22	25	22
Arts-Medicine	0	0	3	2	3	2
Commerce and Administration	850	720	201	189	1051	909
Dentistry	31	22	39	60	70	82
Education	983	901	239	273	1222	1174
Engineering	673	589	27	39	700	628
Law	50	49	85	78	135	127
Medicine	35	28	68	86	103	114
Pharmacy	68	78	14	8	82	86
Veterinary Medicine	22	15	4	5	26	20
Graduate School	470	418	287	244	757	662
Graduate School-Law	0	0	0	1	0	1
Graduate School-Medicine	1	0	0	1	1	1
Totals	4856	4496	1277	1297	6133	5793

A study of the above table shows a decrease of 20 in the total number of transfers for the past year as compared with 1925-26. This office has made every effort to eliminate unnecessary and whimsical transferring and has tried to help the student find his way and establish himself in the right college. Considerable time is spent in conference with individual students in regard

to transferring when it is felt that the request for transfer is made without sufficient knowledge. Students are not transferred when on probation or when the general point average is low. It is felt that transfers from one college to another within the University should be considered on the same basis as transfers from colleges outside of the University.

A study of the admissions to the various colleges indicates a slight falling off in Agriculture, Applied Optics, and Pharmacy, and a small increase in Arts, Dentistry, Law, and Veterinary Medicine. The College of Commerce shows an increase of 130 and a transfer increase of 12. The College of Education has an increase of 82 and a decrease in transfers of 34. This is probably due to the fact that the State Board of Education now requires of an applicant for transfer to Education a satisfactory grade in the Intelligence Test. The College of Engineering has gained 84 this year and has 12 transfers less than last year. The increase of 95 in the Graduate School has already been commented upon.

ENTRANCE CONDITIONS

The following table shows the conditions imposed on the freshmen in 1926-27.

CONDITIONS IMPOSED ON FRESHMAN CLASS, 1926-27 BY SUBJECTS AND COLLEGES

College	Algebra	Plane Geometry	Solid Geometry	Physics	Science	English	Foreign Language	American History	Civil Government	Total Conditions	Number of Freshmen Conditioned	Total Freshmen	Percentage of Freshmen Conditioned
Agriculture ...	9	48	..	..	1	..	..	..	..	58	49	228	21.4%
Arts	11	58	..	..	4	1	..	1	2	77	58	1003	5.7%
C. & A.	12	60	..	..	8	..	..	..	..	80	70	646	10.8%
Education	15	57	..	..	5	..	..	..	..	77	65	523	12.4%
Engineering ..	112	14	146	80	..	..	95	..	..	447	268	557	48.1%
Pharamcy .....	..	2	..	..	..	..	..	..	..	2	2	54	3.7%
Vet. Med.....	..	5	..	..	..	..	..	..	..	5	5	17	29.4%
Totals	159	244	146	80	18	1	95	1	2	746	517	3028	17.07%

It will be noted that 73.5% of the conditions imposed is in Mathematics and 32.9% in Plane Geometry. The students who appear with entrance deficiencies are very often from high schools where Geometry is not offered unless there is a demand for it and the student is not advised that he should have this credit for University entrance. This works a hardship for the freshman since he must tutor in the conditioned subjects while pursuing his college work. The student finds this a difficult schedule and very often prepares half-heartedly for the entrance examination. Consequently large numbers fail and must repeat the examinations. In March, 72 took the entrance examinations in Mathematics and a large number did not pass. If Solid Geometry were offered in the University, a large part of the conditions in Engineering at least would be removed in the University and the student would be relieved of the entrance examinations.

ADMISSION OF STUDENTS TO PROFESSIONAL COLLEGE

The Entrance Board has conformed to the requirements governing admission to professional colleges. No students have been admitted to the professional colleges with less than the minimum point average of 1.8.

College of Medicine. We have not considered any student for admission to the College of Medicine with a point standing less than 2. The pre-medical student body has understood that we have limited the enrollment of the freshman class in the College of Medicine and that selection is based upon character, scholarship, and general fitness. Upon examination of the records of the pre-medical students prepared at The Ohio State University, it appears that this body has put forth more effort to the end that they may meet the requirements. Many of the applications this year for admission to the College of Medicine were from degree men, while many have spent three years in the College of Liberal Arts. Only a few applied for admission with the minimum of two years of liberal arts work. I am glad to advise that the degree and three year men were given preference rather than the two year men. The Entrance Board feels that the more mature man who has spent three or four years in pre-medical work and has had the opportunity to pursue other cultural subjects as well as subjects of a scientific nature has greater professional promise in the College of Medicine than the man who has pursued the two year pre-medical course.

Most of the men admitted from other colleges over the state, for example, Ohio Wesleyan, Miami, Denison, etc., have been degree men.

We declined to admit a number of two year pre-medical applicants whose grades in biological subjects were low although their academic records were above 2.00. Some of these students have counseled with us since they were declined for admission and, while disappointed, they seem very willing to continue at least one more year in the College of Liberal Arts for the purpose of securing more commendable grades in biological subjects.

The pre-medical students manifest a spirit of willingness to satisfy the requirements however high they may be.

College of Dentistry. In 1928 students wishing to gain admission to the College of Dentistry will be required to present two years of liberal arts work. The Entrance Board has advised all pre-dental students who have made inquiry concerning pre-dental requirements that all students entering pre-dentistry this autumn must remain in the College of Liberal Arts for two years.

We may expect a small freshman class in the College of Dentistry in 1928 for this reason, but we predict that in 1929 there will be a large number of applicants. With the present facilities we can accommodate only eighty freshmen in the College of Dentistry and, therefore, it will be only a short time until we must select the dental students as we are now selecting the medical students.

College of Law. All students admitted to the College of Law met the requirements of two years of work in a standard college and a point average of 1.8.

ADMISSION OF STUDENTS FROM OTHER COLLEGES TO THE OHIO STATE UNIVERSITY

During the past year the Entrance Board has declined to accept 225 students from other colleges because they failed to comply with Section 7, Rule 140 which pertains to admission of students to advanced standing from other colleges. The rule is, "Students must have at least average academic records to gain admission to advanced standing." As stated before, we believe this rule has a wholesome effect on the academic standards we are aiming to maintain at The Ohio State University. It also has a good effect upon students

in other colleges who wish to transfer to The Ohio State University. In declining these students, we have advised them to return to the colleges where they have been enrolled for the purpose of securing more commendable academic records.

Of course a small percentage of these students (4%) were declined because of other reasons, for example, disciplinary, honor court actions, etc.

The number of students admitted to the University with advanced standing in 1926-27 was 949 as compared with 925 in 1925-26 and 847 in 1924-25.

VOLUME OF CORRESPONDENCE

We admit most of our students by means of correspondence, although a great many come to the University and are admitted in person. Because of this, we handle a large correspondence. In the last year, we received and answered 34,746 letters with regard to courses of study, entrance requirements, cost of instruction, and other matters of importance with regard to prospective students. This was an increase of 4493 letters over the total handled last year.

Some universities have used the form letter but we have tried to give personal attention to personal inquiries. The large university is often criticised because of the lack of personal attention. We feel that the receipt of a personal letter in answer to the first inquiry regarding an applicant's future college has a tendency to offset this feeling of lack of personal contact.

DISTRIBUTION OF BULLETINS

The Entrance Board handles all mail pertaining to the University Bulletins and addresses all the bulletins which are forwarded. All requests for bulletins are forwarded to the office of the Entrance Board where the letters are read, proper bulletins selected (if not named), and envelopes are addressed on the typewriter. A postal card is forwarded to the addressee advising him that the bulletin which he requested has been forwarded under that date. The typewritten addresses are then sent to the mailing department where the bulletins are posted.

During the year 1926-27 we cared for 27,217 such requests. The distribution of the bulletins mailed is as follows:

Agriculture	1718	General Catalog	890
Applied Optics	155	General Information	5231
Arts	3065	Lake Laboratory	14
Commerce and Administration.....	2152	Nurses' Training Course.....	246
Dentistry	508	Summer Session	3227
Education	2269	Time Schedule	2340
Engineering	1771	University Directory	23
Graduate School	1211	Winter Agriculture	21
Law	577	Journalism	80
Medicine	1052	Annual Report	13
Pharmacy	445		
Veterinary Medicine	309		

INSPECTION OF COLLEGES

Within the past year the Entrance Examiner has visited a number of colleges for the purpose of inspections.

President's Committee. A committee appointed by the President com-

posed of Messrs. Rasor, Lewis, and the University Examiner visited Urbana Junior College, Bluffton College, and Findlay College. Reports of these inspections were made and have been given the attention of the President.

On behalf of the Entrance Board, I wish to express our appreciation for the splendid services rendered by the Examiner's associates on these inspections.

Soon after the committee made a report of conditions at Findlay College, the University Examiner was asked to meet with the Board of Trustees of Findlay College for the purpose of assisting them in reorganization of the College. The Examiner later met with the Trustees and Faculty. As a result of these conferences some members of the Findlay College faculty have resigned for a year for the purpose of mastering the requirements for advanced degrees. It is hoped that they will be temporarily replaced by competent instructors. The trustees have also approved a plan for securing more productive endowment with the purpose in mind that the college will be in a position to do a higher grade of work.

Ohio College Association. In addition to the inspection of colleges on behalf of the University, the University Examiner was selected by the Ohio College Association as chairman of the Committee on Inspection and Visitation. This committee must report triennially on the condition of the individual members which compose the Ohio College Association. The report was made this year by the committee and presented at the last meeting of the Ohio College Association. The personnel of this committee is:

B. L. Stradley, Chairman, University Examiner of The Ohio State University.

F. W. Chandler, Dean of Cincinnati University.

B. E. Cartmell, Treasurer, Ohio Wesleyan University.

The report of these inspections will be found in the next issue of the report of the Ohio College Association for the year 1927.

North-Central Association. The University Examiner was appointed by the North-Central Association to be its representative in inspecting two colleges in West Virginia, namely, Salem College, at Salem, and West Virginia Wesleyan University, at Buckhannon. These inspections were made and reports prepared by the North-Central Association.

Besides these inspections, a number of conferences have been held with the presidents and boards of trustees of small Ohio colleges, which are not members of the associations, concerning better standards and the possibility of gaining credit relationships with the Ohio State University.

The University Examiner has accepted several invitations to speak in high schools concerning admission questions. In one instance, he addressed a group consisting of the sixth to twelfth grades inclusive. The University Examiner believes that more of these contacts should be made in an effort to prepare the high school students to meet the college and university requirements.

UNIVERSITY LIBRARY

OLIVE B. JONES, *Librarian*

ACCESSION DEPARTMENT

Total volumes accessioned.....	25,050
Total volumes purchased	18,432
Total volumes presented	5,664
Laboratory supply	102
Exchange	174
Theses	678

BINDING

Total number of volumes bound	5,032
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CATALOGING DEPARTMENT

Grand total books cataloged	27,829
Grand total titles cataloged	19,746

DEPARTMENT LIBRARIES

Attendance	274,007
Circulation	70,459
Books used	129,890

DOCUMENT DIVISION

Total number of documents received.....	22,746
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INTER-LIBRARY AND GRADUATE LOANS

	Volumes
Books borrowed	164
Books loaned	248
Graduate loans (ad interim work)	11

REFERENCE DEPARTMENT

Total attendance (all libraries)	831,874
Total circulation (all libraries)	116,500
Books used (all libraries)	448,151

DEPARTMENT OF PHYSICAL EDUCATION

Chairman, PROFESSOR L. W. ST. JOHN

The year may fairly be said to have been uneventful so far as any special features are concerned. The Women's Division may be said to be in excellent condition considering the staff and facilities. When the Athletic Field is put in readiness the facilities will be in far better condition than at any previous time. The opening of the Swimming Pool has added a most excellent feature to the Physical Education work for women. This pool is a splendid addition to the equipment and is very greatly appreciated by the students. Some considerable advancement has been made in the way of Intramural activities for women and with new field facilities there will no doubt be still further advancement in this direction.

For the Men's Division the outstanding need still continues to be a Physical Education Building. Until such a building is secured the program for men must in many respects await further development. During the past year the Athletic Board had an expense of some \$45,000.00 for installing in the two Stadium Towers adequate heating facilities and hot water facilities which have served to supply some outlet for the growth and development in the required Physical Education classes.

Locker and shower facilities made available at the Stadium have made it possible to care for approximately eight hundred men at the Stadium, thus relieving congestion in the old Gymnasium. The required program in Physical Education is conducted as efficiently as possible with present staff and facilities.

Intramural athletics for men during the past year have been supervised by S. S. Willaman and H. S. Wood. Some improvements in conduct and organization have been made. It is fair to state, however, that development of Intramural Recreation has about reached a limit until such time as we are able to provide.

(1) A new Physical Education Building which will provide facilities for indoor sports during the winter months.

(2) A Natatorium to provide much needed development in aquatic sports.

(3) Grading and fitting of larger field spaces to provide Intramural outdoor facilities.

We take great pleasure in noting that the University has taken over for the coming year the News Bureau Service as conducted by Mr. J. E. Pollard. The Athletic Department will continue to cooperate in every way possible with the University in this field of service.

Reports from the various divisions of the Department of Physical Education are submitted herewith.

PHYSICAL EDUCATION—MEN'S DIVISION

Director, DOCTOR J. H. NICHOLS

This year concludes for me a decade of service for Ohio State University and the Men's Division of Physical Education and it is interesting for me and possibly worth while to review briefly what has been accomplished in the past ten years of the department's work.

In 1916 the physical examinations were organized in such a way that the examinations of all entering were completed during the first two weeks of the school year, before any physical activity of any kind was undertaken. This was a complete change as previously the

examinations of entering students had been spread out over the entire first year. In the same year, physical efficiency tests were introduced. Classifying and grading students according to their physical ability and permitting students meeting a certain standard to elect their physical activities.

Immediately following the war Physical Education and Hygiene were placed on the same basis as all other courses in the University, granting positive instead of negative credit for work done in this field, a step of great educational importance to the department as it recognized the educational value of work done in this field. While this stamp of approval had been granted in many smaller institutions to the physical education program, Ohio State University was one of the first of the large State Universities to take this step. Since that time most of the State Universities have approved this educational procedure. At this time the Hygiene Course was made a distinct and separate course, carrying one hour credit.

During this period of years, especially following the war, the increase in enrollment was tremendous and our facilities and staff were unable to keep pace. Fortunately intercollegiate athletics had prospered and the Stadium built in 1921 helped to relieve the terrific congestion in the Gymnasium in the Autumn and Spring Quarters. Also the assistance of men in the department who were devoting their major time to intercollegiate athletics made it possible to carry on the general Physical Education program through this difficult period.

In 1917 a four year curriculum for teacher training was submitted to the College of Education but was not approved partly due to lack of funds and partly to the fact that the College of Education was undergoing a reorganization. As far back as 1912-13 a minor in Physical Education had been set up and courses were being given in the summer session for training teachers.

In 1923-24 a completely revised curriculum was submitted to the University and approved and adopted by the College of Education. The first graduates received their degrees in 1926 and two of these graduates immediately stepped into splendid University positions. The second graduates are going out this year. A special report has been submitted by Mr. Hindman on this phase of the department's work. Suffice it to say that the course has become well organized, is increasing in numbers and strength just as fast as the present conditions will permit.

I believe we were the first, several years, ago, to urge President Thompson to adopt the plan of a Pre-Freshman week and this department has worked toward the development of this plan for a number of years. During the last four years we have been starting our physical examinations three days before registration day and last year completed all of our physical examinations before classes started. We are happy to see the fruition of this idea this year and feel confident that the results will help considerably in solving the freshman problem.

CONDENSED STATEMENT OF DEPARTMENT NEEDS

These needs have been presented so many times that I will simply state a few of them without the supporting arguments which have been given in special reports.

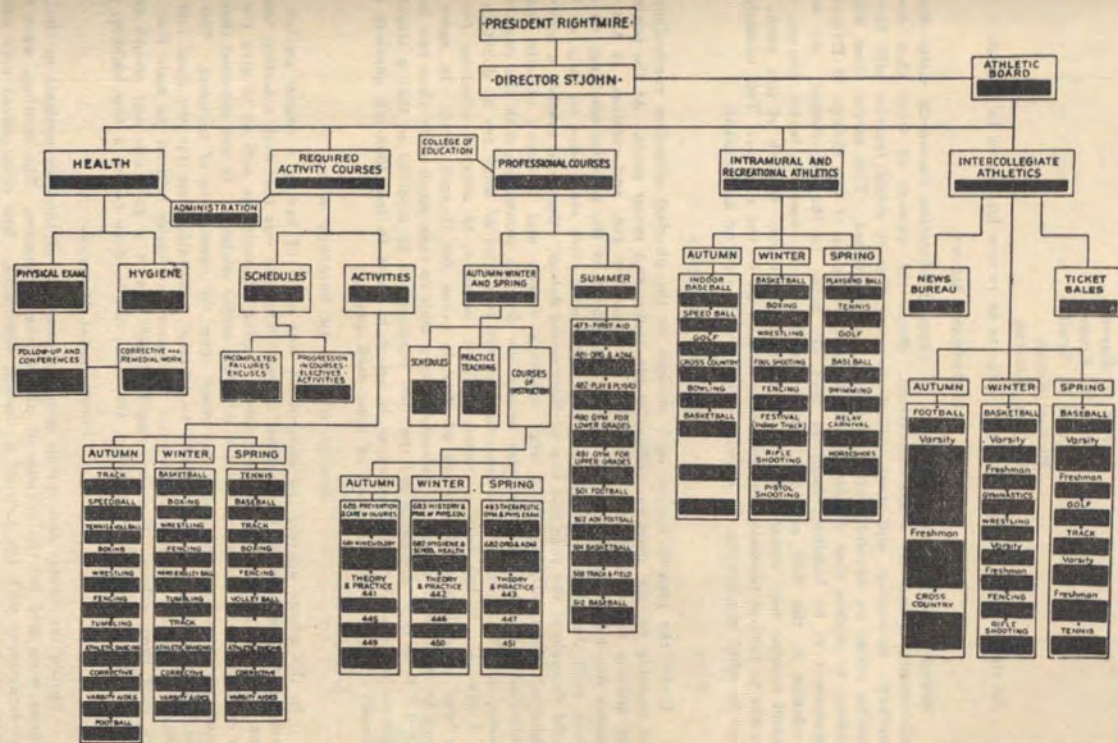
1. A new gymnasium adjacent to the University recreational fields and Stadium.
2. A Natatorium connecting with the new gymnasium locker room.
3. The addition of one year to the required program in Physical Education.
4. The development of a health and recreational program for the instructional force.
5. The development of the fields south of the Stadium to King Avenue for intramural and general recreative activities.
6. The addition of one more full time instructor to devote the major portion of his time to the promotion and development of the corrective and remedial work for students physically handicapped and to the teaching of this work in the major course.
7. A reorganization of the University Health program.
8. The recognition on the part of the University Administration that the Health and Physical Education program, as carried on by this department, is the University's responsibility and adequate financial support for this work should be provided in the University budget.

REPORT ON PROFESSIONAL COURSES

I take pleasure in presenting this report on the Professional courses in Physical Education for Men for the year 1926-27:

The physical education major was adopted by the College of Education in 1923-24. The courses in this major, together with their pre-requisites and other required courses, constitute the Four-year Curriculum in Physical Education. The first graduates four in number, received their degrees in 1926. The past year has shown progress both in numbers and in spirit, several indications of a growing professional attitude being evident.

• ORGANIZATION CHART SHOWING RESPONSIBILITIES AND ACTIVITIES
DEPARTMENT OF PHYSICAL EDUCATION - MEN'S DIVISION
THE OHIO STATE UNIVERSITY



GRADUATES

In June, 1927, the second class was graduated, the men included therein being the following:

Kenneth D. Weber
Howard Hosler
Martin G. Karow
Daniel H. Kruger
Manuel E. Keuchle
Michael Peppe
Richard Severns

An eighth man, William J. Scheidt expects to receive his degree in August.

APPOINTMENT SERVICE

School officials seeking specialists in physical education frequently write directly to the department, asking for recommendations. Since the amount of work thus demanded was constantly increasing, and since indications were that it would increase still further in succeeding years, an appointment service has been developed. This service does not, of course, attempt to replace that of the Bureau of Appointments of the College of Education, but to supplement it by handling inquiries that are made to the department. As we get more graduates in the field and our teacher-training work becomes better known, this service should become very valuable to both teachers and schools. Growth of this work, however, is certain to require provision for its being carried on in the summer. This necessity should be kept in mind in allowing the appointment service to go on and expand.

PRACTICE TEACHING

Under the present system each student in the physical education curriculum does practice teaching for six quarters, ordinarily his junior and senior years. At the beginning of his last quarter he registers for Principles of Education 440, and receives, at the end of the quarter five hours credit for this course, on account of the practice teaching, no credit being given until this time. During the year just passed, two men were on duty at the Godman Guild throughout the year and two at Northwood School. One man coached a semi-professional basketball team, others helped with coaching varsity and freshman athletic squads at the University. Most of the work was necessarily done in connection with the required work for freshmen. The most valuable opportunities for this kind of work are no doubt in the schools of Columbus. It has been extremely difficult, however, to arrange schedules for this work, as long as such a small amount of time is taken for it each week. In order to do real work in the schools it will be necessary for a man to take much more than two hours a week for it. It is therefore suggested that the requirement be modified so that a student can concentrate his practice teaching, so as to let it be done in less than six quarters and with a correspondingly greater amount of time each quarter.

SPECIAL SECTION IN REQUIRED WORK

In the winter quarter the experiment was made of having a special section in required work for freshmen in the professional course. The idea was that such a section would give the man a certain professional attitude and a feeling of unity, as well as to give the instructors an opportunity to become acquainted with the major students. It was expected that the section would also give an opportunity for more than the usual rate of progress. The experiment was not successful. It was difficult to arrange a suitable time for the class and even more difficult to find a place for its meeting. The class was finally held on the main floor in competition with three others. It is believed that the idea is a good one and should eventually be carried out. It is doubtful, however, that this can be done before a new building is provided.

PROFESSIONAL MEETINGS

During the winter and spring quarters, meetings of the men students in the professional courses were held for the purpose of professional discussion. The meetings were arranged by the department with the help of a student committee. The plan proved very successful and will be continued next year, when it is expected that the group will be organized into a permanent body. Several plans for this organization have been considered, but it was decided to delay action until next year.

GENERAL REMARKS

Our students seem to be, on the whole, of a high type. Any who are afraid of work or unable to do it are weeded out early by the difficulty of the course. There has been some hesi-

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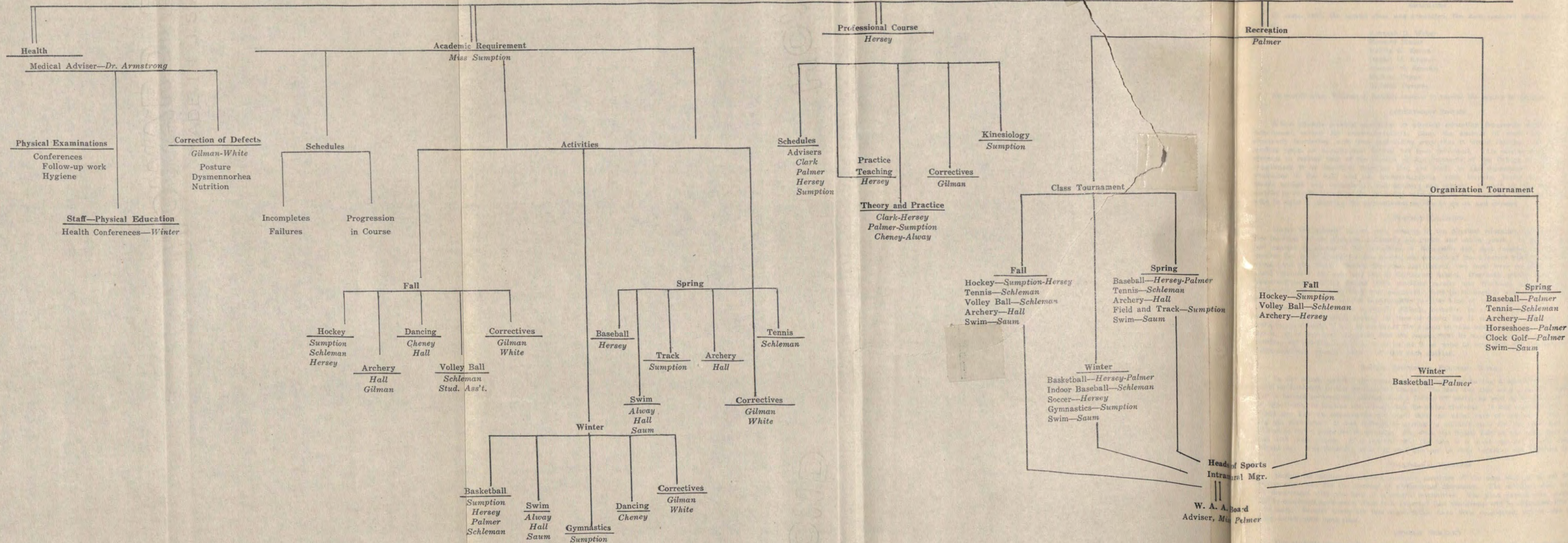
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RESPONSIBILITIES OF THE PHYSICAL EDUCATION DEPARTMENT

DIRECTOR OF WOMEN'S DIVISION



tation about advertising the course, on account of the limited facilities for taking care of the students. We can, however, profitably enlarge the number of students without danger of overcrowding. It is particularly desirable that we increase the number of men who come to the University with the definite idea of starting on the Physical Education curriculum. A very large number of our students come to us from other schools or from other curricula, so that there is a great deal of irregularity and confusion. A new bulletin has been prepared and it is hoped that its early publication and distribution will improve this situation by bringing to us high-grade freshmen who will start on the curriculum immediately.

PHYSICAL EDUCATION—WOMEN'S DIVISION

Direction of Professor LYDIA CLARK BENEDICT

The following report of the Women's Division of Physical Education is respectfully submitted.

The work of this division may be listed under four headings: (1) responsibility for the health of the freshman and sophomore women students and all upperclass women who elect or participate in physical activities on the campus; (2) organization and supervision of the physical education courses required of all freshman and sophomore women; (3) organization and supervision of the professional curriculum in physical education for women; (4) organization of a recreational sports program for women students.

The chart of the responsibilities of the Physical Education Department (Women's Division) will give an idea of the organization of the various phases of the work.

HEALTH WORK

The health work has been carried on this year under the direction of Dr. Shirley Armstrong, during the absence of Dr. Gertrude F. Jones, who was granted a year's leave of absence. Dr. Armstrong has been most generous of her time and energy, and has fulfilled her duties very efficiently.

In the late spring Dr. Jones resigned her position at the Ohio State University, as she wished to continue her work and study in the East. She is a great loss to the University, but we are fortunate to have been able to secure Dr. Armstrong for the position of Medical Adviser for Women for the coming year.

It is important that we keep women of culture, adequate professional training and experience in this position. I find that this is becoming exceedingly difficult. Women who are professionally ambitious wish clinical work. Dr. Jones's resignation was in a large measure due to the fact that there was a great lack of opportunity for treatment and clinical experience. Dr. Armstrong also feels this lack, and has said that she does not care to remain another year unless there is opportunity for greater medical experience. It will be of distinct advantage to the department to have a reorganization of the health service with dispensary. Arrangement for the medical adviser to work certain hours in the dispensary would enable us to retain energetic and capable women, as medical advisers and enhance the value of the advisory health work. The addition of an assistant medical adviser to the Physical Education Staff will make it possible to effect such an organization.

The aims of this work are three-fold: (1) to develop a health consciousness among the women students taking the work; (2) to stimulate an interest in physical activity and recreation; (3) to call attention to physical defects and advise and assist with the correction of remedial defects.

A physical examination is given each entering student, and from the findings of the examination, Dr. Armstrong and Miss Gilman prescribe the types of activity suited to the physical capacity of the student.

Seasonal activities, requiring varying degrees of strength and skill, are arranged for each quarter in such a fashion that the weak as well as the strong student can be accommodated.

The women's division of the Physical Education Department appreciates the interest and cooperation of the administration in granting increase of staff and equipment. This has made it possible to improve the quality of the work. There is still opportunity and need for improvement, before we can approach the caliber of work done in the physical education departments in other universities. In order to progress and strengthen the required work, more time should be allotted to the physical education. At the University of Chicago, students meet four time a week, and at the University of Wisconsin, three time a week.

If we could be allotted more time it would be possible to classify the students according to skill and thus increase the opportunity for greater activity and pleasure on the part of the students. Use of standards and tests would give the student a better understanding of the aims of the physical activity in which she is participating. The freshman classes meet twice a

week and spend about thirty minutes in actual physical activity, as time must be given for dressing for the activity. Sixty minutes a week for activity gives little opportunity for promotion of health or pleasure in acquiring skill. The students, as well as the instructors, complain that the time allotted to physical education is far too short to produce skill enough to enjoy the physical activity. There has been a lack of opportunity to offer advanced courses because of insufficient space and staff. With additional floor and field space, some adjustment can be made, but in order in any great measure to remedy the situation it will be necessary to increase the physical education requirement to four days a week, and increase the teaching staff. This would permit us to arrange a program which would have a greater social value and would tend to create a wholesome interest in recreation which would carry over to the junior and senior years, and possibly to life after college.

There should be time in which to emphasize the health phases of physical education. It is essential that college students gain a more intelligent attitude toward the values and needs of recreation and physical activities in the community. Some theoretical knowledge as well as playing knowledge would produce an attitude of mind which would be a valuable asset for women who will undoubtedly be leaders in their home communities.

Each student has a schematogram taken. This is shown to her and physical defects called to her attention at the first class meeting. During the second lesson there is a short talk on posture. Posters and diagrams are used to help make this talk clearer and more interesting. This is followed by posture training for the individual in front of a mirror and a brief explanation of the aims we work for during the quarter. Examination and posture tracing is given again at the end of each quarter to show the student the benefit of the work.

PROFESSIONAL COURSE

This phase of the work has grown very rapidly. A serious effort is being made to keep the standards high and discourage the student who lacks a keen professional interest.

Teachers of physical education come in very close contact with the students whom they are teaching. Therefore, it is imperative that we encourage the student of high mental and spiritual caliber and discourage students who appear to lack the qualities necessary for intelligent leadership. This necessitates the retention of a strong physical education staff, composed of women of excellent training and high ideals, who have an understanding of educational ideals, and are capable of guiding young students. The need of conferences and advisory work has added materially to the already heavy teaching load of the staff. It is very gratifying to be granted an additional instructor to our staff for the year 1927-28.

The practice teaching has been under the supervision of Miss Hersey. She has organized the work most efficiently.

The administrators and teachers of the Columbus School Systems have received the work in a most cooperative spirit. The teachers have been pleased with the work done by our students and have asked to have practice teachers sent to them for another year.

BUSINESS ORGANIZATION

Parker-Bolen & Company, Certified Public Accountants, have just completed an audit of the books of the Athletic Association up to and including June 30, 1927. Complete reorganization of the business management as recommended by Parker-Bolen & Company become effective in this department July 1st, 1927, and with this recommendation there has been somewhat a new assignment of responsibilities so far as the personnel of the department is concerned.

The Association on July 1st is obligated to Columbus Banks for remaining indebtedness on the Stadium to the extent of \$335,000.00, which will be reduced from time to time as receipts from athletic contests will permit. The budget for 1927 calls for reduction of Stadium indebtedness of \$50,000.00. Any increases in the anticipated receipts will of course be applied to a further reduction of this account.

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STATEMENT OF INCOME AND EXPENSE ATHLETIC ASSOCIATION THE OHIO STATE
UNIVERSITY JULY 1, 1926, TO JUNE 30, 1927, INCLUSIVE

INCOME

ATHLETIC EVENTS

Football—Schedule I	\$247,535.88	
Basketball—Schedule II	10,973.66	
Track—Schedule III	1,443.08	
Wrestling	22.50	
Baseball—Schedule IV	1,854.67	
Fencing	130.00	
Student Books—6084 @ \$8.00.....	48,672.00	\$310,631.79
Tennis (General Courts)		1,490.80

CONCESSIONS:

Football	2,148.55	
Basketball	180.13	
Track (Ohio Relays)	80.23	
Baseball	40.97	
Intramural	16.75	
		3,466.63

FOOTBAL PROGRAM:

Advertising (Net)	2,840.21	
Sales—Schedule VI	11,617.59	
		14,457.80

RENTALS:

Stadium	159.40	
Coliseum	360.00	
		519.40
Interest Received on Bank Balances		778.85
Insurance Received Account Damage to Basketball Floor (Coliseum)		200.00

ROYALTIES:

Glee Club Record to December 31, 1926	151.71	
Miscellaneous	386.49	
		\$331,033.47

EXPENSES

Salaries—Schedule VII	84,274.00
Operating—Schedule VIII	65,883.53

SPORT EQUIPMENT AND EXPENSE:

Football—Schedule X	\$ 44,849.38	
Basketball—Schedule XII	11,371.82	
Track—Schedule XIII	16,341.31	
Baseball—Schedule XIV	10,472.12	
Tennis—Schedule XV	1,979.36	
Wrestling—Schedule XVI	2,772.94	
Golf—Schedule XVII	855.85	
Rifle	11.63	
Fencing and Gymnastics—Schedule XVIII.....	1,780.43	
		90,384.84
Coliseum—Payments in Lieu of Rent, Schedule XIX.....		7,723.56
Intramural Equipment and Expense, Schedule XX.....		11,734.06
Ohio High School Events		1,021.80
Walter Camp Memorial	3,651.12	
Less: Funds received for this purpose	3,174.75	
		476.37

Band Expenses—Schedule XXI	4,626.97	
Less: Funds Received for this Purpose, Schedule V	3,955.25	
		671.72
Interest on Indebtedness		19,485.78
Photographs—Miscellaneous		157.60
Miscellaneous		81.51
Total		\$281,894.77
Excess of Income Over Expenses		49,138.70
		<u>\$331,033.47</u>

STATEMENT OF RECEIPTS AND DISBURSEMENTS ATHLETIC ASSOCIATION THE
OHIO STATE UNIVERSITY JULY 1, 1926, TO JUNE 30, 1927, INCLUSIVE

BALANCE ON DEPOSIT JULY 1, 1926

Citizens Trust & Savings Bank	\$ 3,253.98	
City National Bank	3,975.37	
Huntington National Bank	5,465.32	
National Bank of Commerce	1,577.67	
Ohio National Bank	1,304.27	
		<u>\$ 15,576.61</u>

RECEIPTS:

Football (Less Guarantees)	247,535.88
Basketball (Less Guarantees)	10,973.66
Track	1,443.08
Baseball (Less Guarantees)	1,794.67
Wrestling	22.50
Fencing	130.00
Students Books—6084 @ \$8.00	48,672.00
Tennis (General Courts)	1,490.80
Band Fund (Includes 6084 Student Books at 50c)	3,955.25

CONCESSIONS:

Football	\$ 2,148.55	
Basketball	180.13	
Track (Ohio Relays)	80.23	
Baseball	40.97	
Intramural	16.75	2,466.63

FOOTBALL PROGRAMS:

Advertising (Net)	2,840.21	
Sales (Net)	11,617.59	14,457.80

RENTAL:

Stadium	159.40	
Coliseum	360.00	519.40
Walter Camp Fund		3,174.75
Subscriptions Stadium Fund (Payments Received)		4,600.00
Money Borrowed		110,000.00
Interest Received on Bank Balances		778.85
Refund of Salaries advanced prior to July 1, 1926 (Physical Education Department)		2,647.32
Sale of Liberty Bonds (Par \$250.00)		253.05
Varsity Relief Trust Fund to apply on Salary of C. W. Harley		400.00
Insurance Received Account of Damage to Basketball Floor (Coliseum)		200.00
Return of Loan to Scarlet Mask		300.00

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Royalty—*Glee Club Record to Dec. 31, 1926.....	151.71
Miscellaneous	336.49
Total	456,303.84

471,880.45

DISBURSEMENTS

Salaries	84,574.00
Operating Expenses	58,225.36

SPORT EQUIPMENT AND EXPENSE:

Football	\$ 43,135.43
Basketball	11,124.97
Track	15,711.01
Baseball	10,219.22
Tennis	1,797.26
Wrestling	2,650.56
Golf	812.25
Rifle	3.63
Fencing and Gymnastics	1,704.18

87,158.51

Coliseum—Payment in Lieu of Rent	7,723.56
Intramural Equipment and Expense	11,017.36
Ohio High School Events	1,019.21
Walter Camp Memorial	3,651.12
Band Expenses	4,626.97
Loan to Scarlet Mask	300.00
Improvements to Stadium and New Equipment, Schedule XXII	55,668.95
Travel Advances	83.51

PAYMENT ON INDEBTEDNESS:

Principal	135,000.00
Interest	19,485.78
Miscellaneous	81.51

Total \$468,615.84

BALANCE ON DEPOSIT JUNE 31, 1927:

Citizens Trust & Savings Bank	378.49
City National Bank of Commerce	1,556.21
First National Bank	206.10
Huntington National Bank	948.81
Undeposited Cash	175.00

Cash on Hand 3,264.61
\$471,880.45

REPORT OF RECORDS OF ALUMNI
HENRY D. TAYLOR, Recorder

This office was established in June, 1922, by appointment of the undersigned as Recorder by the Board of Trustees. No assistance by way of funds for carrying on the work of the office or supply of clerical help was provided for at that time, and although requests have been made for such, up to date nothing has been furnished. The only source of help either by way of finance or clerical assistance has been through the generosity of the Athletic Department, this department having supplied one full time stenographer and having assumed such bills for postage and supplies as requested by the Recorder.

Practically the only way to follow up a list of addresses scattered over as wide territory as the Alumni of this University cover, lies in an occasional first-class mail canvass of the list in order to secure from the postoffice all letters not delivered from want of proper direction. The only first-class mail going to all graduates and former students is, to the best of my knowledge, the football information pamphlet. This comes at a time when no one from the clerical force of this office can take up returned mail as it is returned and start a campaign against the incorrect addresses. There should be a full time assistant who could take this mail

as it is returned and start a campaign against the incorrect addresses. There should be a full time assistant who could take this mail as it is returned and begin immediately to correct wrong addresses, if the addresses of the alumni are of any value to the University. In such time as has been available this office has kept up changes in addresses secured from football application cards, the Alumni Monthly Magazine and such other sources as have been of quick access. But no funds or help has been provided for a systematic drive to establish the list against all peradventure. If the University places any value on who, what, and where the alumni are, some steps should be taken very shortly to place this file in the proper condition.

This file should consist of at least three distinct divisions, viz:

1. An alphabetical card index of all graduates with names, years, degrees, business, and best address.
2. A card file arranged by years of graduation and subdivided alphabetically in this file, with year, degree, and address.
3. A stencil address file arranged geographically. The Athletic Department has supplied this office with an Elliot Addressopress equipment and several cabinets for the purpose of filing these stencils. More cabinets are needed and stencils should be made for every card in the files. We already have more than 16,200 stencils in use.

Other schools have gone much further than the above suggestions and have provided means and equipment for keeping records of all worthy accomplishments made after alumni have left college atmosphere. Some day we shall possibly wish this condition, but I am requesting only what I consider absolutely necessary for the preservation of a valuable nucleus.

Finally, the Secretary of the Ohio State University Alumni Association has a card file of Alumni. Several of the different college secretaries maintain a list of graduates of their respective colleges and practically all of the fraternities and sororities have up to date lists of their members, all of whom are Ohio State men and women. With sufficient office personnel cooperation of all these separate units could well be effected and a central place where all addresses are kept could be maintained with mutual benefit to all concerned. I am not recommending that this office be that central place but I am recommending the establishment of such a center in the spirit of helpfulness to the many and economy of administration. I do feel that the present lists in my office could be made the nucleus and with the completion of the plans as suggested would form an ideal clearing house for all such information and records. Whether I be retained as such officer is of no moment, but if these names and addresses are of any value to the University, economy and foresight demand that something be done soon to preserve them.

MILITARY SCIENCE AND TACTICS

FACULTY

Colonel A. M. Shipp, P. M. S. and T.

The following changes in faculty since last annual report:

Col. A. M. Shipp, Inf., transferred to Command and General Staff School, Ft. Leavenworth, Kansas, effective August 20, 1927.

Major John N. Hauser, F. A., transferred to Fort Sill, Oklahoma, effective September 5, 1927.

Captain Lewis B. Hershey, F. A., relieved June 15th, expiration of detail.

First Lt. Chester H. Smith, S. C., died in hospital, Fort Hayes, February 23, 1927.

Warrant Officer Jesse S. Parker, died at his home, Columbus, Ohio, December 1, 1926.

REPLACEMENTS

Col. G. L. Townsend, Inf., Vice Col. Shipp.

Major Alexander C. Sullivan, F. A., Vice Major Hauser.

First Lt. Polk J. Atkinson, F. A., Vice Captain Hershey.

First Lt. William M. Mack, S. C., reported March 22, 1927, Vice First Lt. C. H. Smith, (deceased). No replacement for Warrant Officer Parker.

First Lt. C. H. Smith, S. C., (DOL), was a conscientious, painstaking, dependable, and efficient officer. His relationship with the students of his unit was particularly close and cordial. His loss was keenly felt by the department.

Warrant Officer Parker was thoroughly competent and his service at this institution was characterized by strict attention to duty. His loss was keenly felt by the department.

ENROLLMENT

1926-1927

Autumn Quarter	Winter Quarter	Spring Quarter
3593	3340	2950

1925-1926

3454	3190	2819
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An increase of a little over 4% between Autumn Quarters of 1925 and 1926.

The following members completed the Advanced Courses in Military Science and were commissioned in the Officers' Reserve Corps in their respective branches:

GRADUATES

	Autumn Quarter	Winter Quarter	Spring Quarter	Total
Inf.	2	0	20	22
F. A.	1	2	22	25
Sig.	1	0	12	13
Med.	0	0	11	11
Dent.	0	0	23	23
Vet.	0	0	8	8
Total	4	2	96	102

DEAN OF WOMEN

Acting Dean, JESSICA FOSTER

REGISTRATION

There were 3159 women students registered at the University this year. For the first time in the history of the office of the Dean of Women there has been a complete registration of women students. The Board of Trustees decreed a definite time for such registration and imposed a penalty of \$5.00 for late registration. On the whole, the co-operation of the students in this matter has been excellent. The system is now perfected and will doubtless go very well another year.

HOUSING

Of these 3159 women students approximately two-thirds live in the city of Columbus. This creates a situation in the office of the Dean of Women at Ohio State University quite unparalleled throughout the country. When two-thirds of the women students live at home, it is difficult to enforce rules and enact supervision over the remaining one-third. The two University dormitories have been filled as usual. Westminster Hall, the Presbyterian dormitory, which formerly had housed 22 girls, was enlarged to accommodate 85 girls.

In addition to the two University dormitories, Neil Hall and the two church dormitories, Westminster Hall and St. Hilda's Hall, there have been 45 private homes used for the housing of women students. The use of the quarterly housing contracts instituted a year ago has become established and is most satisfactory. The co-operation of the householders in these 45 houses is a decided problem. Although each house and dormitory is organized under Student Government rules and a house president is elected by the girls, the householder should be in constant touch with the office of the Dean of Women. I feel that this past year has been an improvement in the matter of co-operation. There have been meetings of the householders with the Housing Assistant and she has made regular inspection of the houses, and has attended the bi-weekly meetings of the house presidents. The housing booklet which contains a complete list of the approved rooming houses has been compiled and printed for the year 1927-28.

Special permits have been given to students to live with relatives or friends. Each student given such permission has filled out a special permission card and has been interviewed in the office of the Dean of Women. An effort has been made to visit each of these homes for which special permission has been given.

For the first time, inspection has been made of available rooms for colored girls. The women who are willing to take these girls, have been given copies of Student Government rules and have agreed to co-operate with the office of the Dean of Women.

SELF-HELP

Approximately 75 girls have lived in private homes this past year working for their board and room. Interviews with all these girls were arranged

for during the year and a visit was made to each home where a University girl was employed. Remarkably few adjustments were necessary and more than three-fourths of the women who employed girls expressed themselves as entirely satisfied with the arrangement made.

SORORITIES

Two hundred and eighty-eight girls were housed in 26 sorority houses off the campus. Of these 26 houses, 11 are owned by the sororities and 15 are rented. The houses accommodate from 5 to 20 girls. Regular visits of inspection have been made thus stimulating interest and a feeling of responsibility, and aiding co-operation with the office of the Dean of Women. The tone of the houses, I feel, depends largely upon the chaperons and this is the great problem in the sororities at present. The right sort of person with education, social background, sympathy, and tact is hard to find for the salary which the sororities are able to pay. I should be very glad to see the University appoint sorority chaperons and pay at least a part of their salaries.

FRESHMEN

Freshmen lectures for women were given during the Autumn Quarter. The first meeting was opened with an address by President Rightmire, followed by the members of the Department of the Dean of Women. Lectures throughout the quarter comprised discussions on methods of study, the use of the library, an introduction to all campus organizations, a talk on health and recreation, and other brief addresses by distinguished members of the faculty.

The plan for freshmen personal interviews was instituted this year. The purpose of the interviews was to help the freshman girl adjust herself to her environment.

LOANS

The loan funds this year have been in constant use. The Women's Student Council loan fund whose resources are greatest has been of service to the largest number of girls. The other available funds are those of the American Association of University Women, the College Women's Club, the University Women's Club, the University Alumnae (Clara Orton fund), the City Panhellenic Association and the University Mothers' Club. These loan funds are available to upperclassmen only.

The loans given for the year 1926-27 by the different organizations to 27 students are as follows:

College Women's Club	\$100.00
Ohio State University Alumnae—(for 3 students only).....	850.00
American Association of University Women	200.00
Women's Student Council	840.00
University Mothers' Club	50.00

STUDENT HEALTH SERVICE

DR. RICHARD KIMPTON, *Acting Director*

Beginning the twelfth year of its activities with a very serious hindrance in the illness of Dr. Wingert—its organizer and Director from the time of its founding—this department has continued its functions throughout the academic year uninterruptedly.

By your official action, Professor Wingert was given leave of absence for the year, and his assistant appointed to act in his stead, under the title and authority of Acting Director. Permission was given for the engagement of a suitable professional assistant upon a temporary contract, and there were inferential instructions to the effect that the established policy, procedure and organization of the department would continue undisturbed pending developments of the year.

Dr. Harlan Dudley of Berea, Kentucky, who had served Berea College in the capacity of Medical Officer for eight years, was engaged in the emergency, and has performed the duties of the position capably.

In accordance with our established policy, particular endeavor was made to prevent illness among students, and thus minimize wastage, both economic and vital. To accomplish this the following measures were part of our daily program:

(1) Examining and appraising all cases of physical disability reporting to us in person.

(2) Administering medical or surgical treatment for all minor ailments and injuries coming within the proper scope of Health Service procedure.

(3) Rendering active assistance to those more seriously ill or injured, by giving temporary care; conveying to residence or hospital; assistance in obtaining competent medical or surgical care; and by notification of college authorities, parent, guardian, or other interested person.

(4) Furnishing certificates of disability coming officially within our knowledge, as a basis for excuse for absence from classes.

(5) Epidemiologic surveys and supervision of all contagious diseases occurring among our students or within houses occupied by our students.

(6) Enforcement of established Health regulations within the precincts of the University.

(7) Sanitary surveys, and advice on sanitation.

(8) Immunizing procedure against diseases preventable by such measures.

(9) Performance of standard "Life Extension" procedure.

(10) Re-examination and study of known or suspected substandard individuals.

(11) Cooperation with City, County, and State Health authorities.

(12) Informal, but practical and intensive instruction in Hygiene and all Health subjects, thereby establishing within the mind of each individual student coming within the sphere of our influence, a knowledge of his duty to himself and toward his neighbor.

Each of these enumerated activities is a practical phase of Hygiene—Informational, Preventive, Corrective, Applied and Administrative—knowledge and practice of which makes for better citizenry, not alone in the personal

health of the individual, but also in the moral and active support which he will afterward accord to the official Health Executives of his State.

The dispensary department of a Health Service is usually the place of most frequent resort by the students, because of their consciousness of the need of assistance while feeling ill; consequently 85% of the work done under our present plan of organization will be found to consist of dispensary aid in the prevention of impending sickness, and the administrative work associated with a train of such events.

The health conditions of our University community were unusually good throughout the academic year, leading to a lowered ratio of attendance of students at our dispensary; the daily ratio for the year being as 83 is to 104—the figures for the preceding year. Of the 10,425 students enrolled in the three major Quarters of the year during which we operated, only 4265 found it necessary to seek our care, a reduction of nearly 18% over the records for five previous years. That number consulted us for advice or treatment one or more times. We received and attended 14,580 calls, the service being distributed as follows: Freshmen, 5700; Sophomores, 3939; Juniors, 2504; Seniors, 1560; Graduates, Faculty and others 877. These figures include 1176 visits by women students for advice or care.

Those of our students showing signs of serious illness, either present or impending, were given special temporary care; sent home or conveyed thither; advised as to conduct pending selection of their physicians; assisted in the selection when necessary; a notice of illness sent to deans of colleges and when necessary, to friend or family also. Our records show that we referred students to other physicians, clinics, hospitals, specialists, and laboratories on 997 occasions, approximately one-third of which were for care of acute illness.

Certificates of illness as a basis for class excuse were issued to those whose record showed the need. Based upon this, the total loss of class time by reason of illness was greatly reduced over previous years, 8234 class hours being the total recorded time lost for sickness, a reduction of almost 12% over last year, when we recorded 9321 hours lost for that reason; a substantial and progressive gain, demonstrating the value of Health Service care in preventing economic and vital wastage. Pertinent to this subject, we mention that at our instigation, two students were penalized by the administrative authorities for attempted fraud in the procurement of "excuses" for class-absence.

No large epidemic prevailed during the year; communicable diseases were of infrequent occurrence, and kept at a minimum by vigilant supervision. Mumps appeared early in the Winter Quarter from contact at a distant point during Christmas holidays. Eight cases resulted, all confined to the one Fraternity House wherein it began. German Measles became prevalent in February, and our records show a total of 37 cases. Diphtheria was met with a few times, and several students suspected of being "carriers" were kept under supervision and treatment until found to be clear. Septic sore throat was a formidable ailment in point of frequency of occurrence and duration of disease, but did not lead to serious disruption of class schedules. Two cases of Scarlet Fever were recorded and one case of Chickenpox. Smallpox was suspected in several instances, but proved to be else before supervision was withdrawn. Splendid cooperation was given by all interested persons in our efforts to control and suppress communicable diseases by the enforcement of the City, State, and University health regulations.

Despite our limited personnel, and the large amount of work entailed by our multitudinous duties, several limited sanitary surveys of premises and food conditions were made during the year to satisfy misgivings of individuals having the welfare of the University community in mind. Satisfying reports were made in each of these cases.

Immunizing procedure against diseases preventable by such measures was done in 384 cases. The diseases so combatted were: Smallpox; Typhoid Fever; Tetanus; Catarrhal Colds, and Hay Fever. When it is known that each case so immunized calls for from 3 to 12 or more visits and operations, the large amount of work entailed will be appreciated.

By reason of the lowered incidence of sickness during the year, we were able in a limited number of cases to undertake a personal health survey of students by standard Life Extension methods. The benefits which follow such work are two-fold: (a) immediate assurance of health or otherwise; (b) formation of the habit of periodic medical examinations. It is a legitimate function of a University Health Service.

In a considerable number of instances we were unofficially apprised of the presence upon the campus, of students suspected of being substandard in health. These individuals were called in by this department and a study made of each case. By reason of this work, two active cases and one incipient case of tuberculosis were discovered, another suspected of being tubercular was shown to be suffering from pyelitis; several were given a clear bill of health, and six cases of epilepsy ranging from mild infrequent attacks of petit mal to occasional attacks of grand mal were uncovered. All cases of diseases so discovered were properly advised and referred to specialists for appropriate treatment and care.

Recognizing the authority by which the State retains control of Health Administration within her borders, all efforts of this Department are made to conform to our State Code and City Regulations. Very happy relations are maintained between health authorities of State, City, and University, thereby bringing all into cooperation for the benefit of the individual and the group.

Health Education continues to be the basis upon which each activity of the Department of Student Health Service is founded. Though our hygiene instruction is informal, it is very effective. Each visit to our department may be classed as a laboratory demonstration of some particular principle in the prevention of disease or of restoration and maintenance of health. The "Health Cards" originated in this department by Prof. Wingert continue to be our chief supplementary medium. That their effect is lasting is attested by the requests of many former students for additional copies for reference and distribution.

As usual, respiratory diseases continued to be the most frequent in occurrence; digestive disturbances and gastro-intestinal disorders followed in close sequence; minor surgical conditions formed the third largest group of ailments met with; skin conditions were next in point of frequency, while the care of external diseases in the eye constituted a considerable part of our dispensary work. A classified list of the ailments met with during the year will be found at the conclusion of this report.

COMMENTARY

The Department of Student Health Service was organized and instituted in 1915 under the directorship of Dr. Wingert. It was established purely as a benevolence to the students, at a period when the scope of a Health Service was very limited, and functions poorly defined.

The principal objective then was the reduction of absences due to sickness; and the means of accomplishment reduced to a single term, was prevention of disease.

The means adopted were: (a) Supervision of health, and dispensary care of minor injuries and ailments; (b) Health Education.

Adhering firmly to these principles throughout the twelve years of his directorship, Dr. Wingert has, by the most heroic efforts, carried this department onward through years of increasing enrollment with a constantly diminishing record of class-hours lost through illness—the one criterion of success in view of the one objective.

This department still continues as it began—a gratuitous benevolence on the part of the Ohio State University toward its students—its expenses being paid out of the general fund; and its objectives, activities and personnel though slightly enlarged, are now far short of today's standard in such matters.

That division of the science of Public Health which is devoted to the welfare of college students, and classified as Student Health Service, has, within the past twelve years, greatly advanced in precision of procedure; its field widened, and its objectives made clear. Within the confines of these United States, 442 higher institutions of learning are now being served by departments organized in close conformation with the broader concepts of today. As set forth in the literature available, the following are put forth as objectives:

- (1) To teach practical health care.
- (2) To teach health responsibility of the individual.
- (3) To prepare students for Life and Achievement.
- (4) To supplement parental advice and care while in residence.
- (5) To reduce the loss of class-time to its lowest rate of expectancy.
- (6) To raise scholarship by lowering incidence of sickness.
- (7) To conserve the health asset of students and add a reasonable increment during residence.
- (8) Not paternalism, nor thoughtless benevolence, but practical lessons in self-responsibility.

And the means for the attainment of these objectives would include:

ALL PUBLIC HEALTH PROCEDURE

Medical examination on entrance; Epidemiology; Sanitation; Immunization; Housing Inspection; Campus Food and Personnel Supervision.

HEALTH EDUCATION

A comprehensive course in Hygiene, covering at least the freshman year, and to include Personal, Community and School Hygiene, together with an elementary knowledge of Public Health regulations.

HEALTH WORK FOR LIFE-EXTENSION

Annual medical examinations; periodic re-examinations; follow-up work in special cases; health conferences.

DISPENSARY AND INFIRMARY WORK

Treatment of minor illness to prevent class absence.

Temporary bed care for observation and determination.

Refer severe or continued cases to hospital or physician.

LIAISON ROLES

As health officer of Campus—between University and student group.

Between ailing students and Deans of Men and Women.

Between ailing students and hospitals or physicians.

Between ailing students and teaching staff.

Between ailing students and parents or guardian.

Between ailing students and Department of Military Science.

Between ailing students and gymnasium.

Between ailing students and athletics.

Between ailing students and City Health officials.

RESEARCH AND EVALUATION

It is commonly agreed that colleges and universities owe to society the duty of furthering the knowledge of health and disease. The opportunity for such study and subsequent evaluation in their health organizations are unique.

Your Department of Student Health Service is ready with a progressive transitional plan, which eventually could include all of these features. Permission, with authority to put this plan into effect is respectfully asked, in the full belief that it will bring a decided advance in the life and welfare of the Ohio State University.

An enlargement of this department along the contemplated lines would require a specially trained personnel, larger quarters with special arrangement and equipment, and the authority to make mandatory some of that which is now purely volitional. But so great are the advantages which will accrue to the student group through this requirement, we have no hesitancy in making this petition.

The question of finances is important, but easy of solution. By causing each student to pay a nominal sum (tentatively set at one dollar per quarter) for health supervision, there would result a sum of money approximating \$35,000 per annum, sufficient to go far in the first years of this plan. It is contemplated that this proposed Health supervision be purely advisory and admonitory, for the benefit of the individual. The corrective work (aside from dispensary service in minor ailments as at present) should be left to established practitioners.

Sentiment for the improvement of Health Service to the students of Ohio State University has been crystalized upon the campus, and general approval of such conservative advancement as is advocated herein, may reasonably be taken for granted.

REPORT OF STUDENT AUDITOR

EDITH M. AUCH

One hundred thirty student organizations came under the supervision of the Auditor of Student Organizations during the school year 1926-1927.

The receipts of these organizations for this year totaled \$129,875.44, an increase of \$8,989.67 over the previous year. Balances at the close of the year totaled \$8,885.93. These balances are deposited to the credit of the respective organizations in local banks.

With a group of treasurers having had little or no previous experience in the handling of money, much time has been spent by this department in instructing them in the most efficient methods of taking care of their funds.

Printed forms and blanks designed to fill the bookkeeping needs of all organizations are supplied at cost. A list of these forms and their uses may be found in Rules and Regulations prescribed by the President of the University on page 6.

An audit of every account has been made at least once during each school quarter. Additional audits have been made when necessary. Managers of student publications submit their books after each issue of their publication. Some organization books of other types have been audited once each month. Memoranda on all audits have been furnished to treasurer so that they may know the exact sources of income, disposition of funds and amounts of cash balances on dates of audits.

The student treasurers serving during the past year have been unusually efficient. They have shown a willingness to learn and have apparently appreciated the attention which has been given them.

As a whole, the past year has been a successful one. Of the one hundred thirty organizations supervised, eighty-three show profits for that period. The remaining forty-seven were forced to draw upon previous balances in order to meet current bills.

Six organizations left unpaid bills at the close of the year. They are:

The Candle. Only one issue of this literary magazine was published because of lack of interest on the part of the student body. Uncollected advertising accounts, amounting to \$54.00 can be applied on the accounts payable if collections are made. The accounts payable now total \$89.00.

Class of 1927. This year's graduating class left a bill of \$133.96 incurred for the Senior Prom. The class having disbanded with the small balance of \$1.39 in its treasury, there seems to be no means of paying this account. Those in charge of the Senior Prom have not volunteered to accept personal responsibility for the debt, nor have they been forced to do so.

Interfraternity Council. Failure to collect accounts is directly responsible for the unpaid bills. Accounts receivable total \$729.00, while accounts payable amount to \$177.38.

Strollers Dramatic Society. The deficit of this organization is of long standing. The past year was more than ordinarily successful, and resulted in the payment of \$438.15 on the old debts. The assets are \$419.08; the liabilities, \$1,123.27.

Women's Ohio. This organization incurred a deficit of \$800.00 through the production of a play at the Hartman Theater, during the fall quarter. Through the efforts of members, this deficit has been reduced to \$50.00 which can be cancelled soon after the opening of the fall quarter.

Women's Student Council. The staging of the biennial May Fete resulted in a deficit of \$311.89. Plans for next year include the retirement of this debt.

In contrast with these unfavorable reports your attention is called to the splendid financial condition of a number of other organizations. Among these should be listed Browning Dramatic Society, Girls' Glee Club, Men's Glee Club, 1927 Makio, Scarlet Mask Club, Sun Dial, Women's Athletic Association and Women's Panhellenic Association.

The sum of \$7333.06 was paid to students for services rendered. The Sun Dial paid \$4,296.86, the Makio, \$2,648.39. Other organizations remunerating their officers are the Agricultural Student, the Ohio State Engineer, the Sentinel, Men's Glee Club, and Cadet Officers' Club. No women students have been paid for services rendered to campus organizations or publications.

STUDENT ORGANIZATIONS

1926-1927

- | | |
|---|--|
| 1 All Agricultural Council. | 53 Junior Y. M. C. A. Council. |
| 2 All Agricultural Council. | 54 Kappa Gamma Chi. |
| 3 Alpha Psi Delta. | 55 Kappa Phi. |
| 4 American Institute of Chemical Engineers. | 56 Lambda Gamma Delta. |
| 5 American Institute of Electrical Engineers. | 57 League of Women Voters. |
| 6 American Society of Agricultural Engineers. | 58 Loan Fund. |
| 7 American Society of Civil Engineers. | 59 Mack Hall. |
| 8 American Society of Mechanical Engineers. | 60 1927 Makio. |
| 9 Architects' Club. | 61 Makio Sinking Fund. |
| 10 Beaux Art Ball Committee. | 62 Menorah Society. |
| 11 Boost Ohio. | 63 Men's Glee Club. |
| 12 Browning Dramatic Society. | 64 Men's Student Council. |
| 13 Bucket and Dipper. | 65 Mortar Board. |
| 14 Buskin Players' Club. | 66 Natural History Club. |
| 15 Cadet Officers Club. | 67 Newnan Club. |
| 16 Candle. | 68 Ohio Commerce. |
| 17 Chi Delta Phi. | 69 Ohio State Engineer. |
| 18 Chimes. | 70 Ohio State Four-H Club. |
| 19 Christian Science Society. | 71 Ohio State Phoenix. |
| 20 Cincinnati Club. | 72 Ohio State Pistol Club. |
| 21 Class of 1926. | 73 Ohio State Review. |
| 22 Class of 1927. | 74 Ohio State University Orchestra. |
| 23 Class of 1928. | 75 Ohio State University Pharmaceutical Association. |
| 24 Class of 1929. | 76 Ohio State University Rifle Club. |
| 25 Clinton County Club. | 77 Oxley Hall. |
| 26 Commerce Council. | 78 Pan-Professional Council. |
| 27 Cosmopolitan Club. | 79 Pen and Brush Club. |
| 28 Delta Sigma Rho. | 80 Pershing Rifles. |
| 29 Deutscher Verein. | 81 Phi Alpha Theta. |
| 30 Downing Club. | 82 Phi Delta Kappa. |
| 31 Dunker Club. | 83 Phi Rho Alpha. |
| 32 Engineers' Council. | 84 Phi Upsilon Omicron. |
| 33 Episcopal Club. | 85 Philomathean Literary Society. |
| 34 Eta Kappa Nu. | 86 Philosophy Club. |
| 35 Forum. | 87 Physical Education Club. |
| 36 French Club. | 88 Pi Delta Epsilon. |
| 37 Freshman Girls' Glee Club. | 89 Pi Lambda Theta. |
| 38 Freshman Y Council. | 90 Pi Mu Epsilon. |
| 39 Gamma Epsilon Pi. | 91 Pi Tau Pi Sigma. |
| 40 Girls—Classes of 1926 and 1927. | 92 Political Science Club. |
| 41 Girls—Class of 1928. | 93 Progressive Dairy Club. |
| 42 Girls' Glee Club. | 94 Prospectors' Club. |
| 43 Graduate Students' Organization. | 95 Psychology Club. |
| 44 Graduate Women's Club. | 96 Saddle and Siroin Club. |
| 45 History Club. | 97 Scabbard and Blade. |
| 46 Home Economics Club. | 98 Scarlet Mask Club. |
| 47 Horticultural Society. | 99 Sentinel. |
| 48 Industrial Management Club. | 100 Sigma Delta Chi. |
| 49 Interfraternity Council. | 101 Sigma Delta Epsilon. |
| 50 International Club. | 102 Sigma Delta Phi. |
| 51 International Student Forum. | 103 Sigma Delta Sigma. |
| 52 Italian Club. | 104 Sigma Eta Chi. |
| | 105 Sigma Gamma Epsilon. |
| | 106 Social Committee—Y. M. C. A. and Y. W. C. A. |

- | | |
|--|--------------------------------------|
| 107 Society of Automotive Engineers. | 119 Townshend Agricultural Society. |
| 108 Society of Student Industrial Engineers. | 120 Transportation and Traffic Club. |
| 109 Sophomore Y Council. | 121 Trowel and Spade. |
| 110 Spanish Play Account. | 122 University Gospel League. |
| 111 Sphinx Society. | 123 Women's Athletic Association. |
| 112 Strollers Dramatic Society. | 124 Women's Ohio. |
| 113 Student Chemical Society. | 125 Women's Panhellenic Association. |
| 114 Student Organizations. | 126 Women's Student Council. |
| 115 Sun Dial. | 127 Women's Summer Council. |
| 116 Tau Sigma Delta. | 128 Y. M. C. A. |
| 117 Texnikoi. | 129 Y. M. C. A. Handbook. |
| 118 Theta Sigma Phi. | 130 Y. W. C. A. |

UNIVERSITY Y. M. C. A.

JOSEPH A. PARK, *Secretary*

The Ohio State University Y. M. C. A. will soon have completed its forty-fourth year on this campus, being by far the oldest student organization with a continuous existence. As a part of that existence the year just past has been one of steady progress.

We think of the "Y" as an All-University organization and the following participations in the program of the past year indicate how varied and numerous are the contacts made.

Fourteen Social Events attended by	3335
Sixteen Religious Meetings, attended by	5900
Three Educational Trips, attended by	170
Four Out-of-Town Conferences, attended by.....	38
Ninety Cabinet and Council Meetings, attended by	2700
Handbooks given out	3000
Boys' Club Leaders	6
Freshman Advisers signed up	450
Freshmen served by them	900
\$44,291.00 worth of employment given to	1128
Four community service teams using	16
Sophomores acting as Juvenile Court "Big Brothers"	20
Twenty-seven Fraternities in 130 Fireside Sessions	3250
Faculty "Session" Leaders	49
Rooms secured for	1200
Number of members	1050

There is, of course, a great deal of duplication in this list, with many men participating under six or seven classifications, but on the other hand no account is taken of the large number of men entering the office for counsel, for information, and for varying kinds of service; nor does it take into consideration our cooperation in many of the conferences held at the University through the year and our service to particular departments.

We have always felt that our program should be elastic enough to include anything which promised to benefit the University as a whole. With that idea in mind your Secretary undertook a survey of student government and activities which, while not as thorough nor comprehensive as he desired, has made available some much needed information in this area. Mr. Dalton and I have been able to be of some service to the faculty committee on Social Conditions Affecting Students.

The Cabinet works through fourteen committees, the mere mention of which indicates a scope which goes far beyond the campus boundaries. Social, Friendly Relations, Conferences, Community Service, Publicity, Visitation, Membership, Juvenile Court, Social Service, Freshman Advisers, Handbook, Employment, and Church Relations complete the list. A brief report such as this cannot visualize for you the helpful services of these committees. Indicative of their possibilities is the fact that each chairman feels that his program is the nucleus of the "Y's" activities.

The Y. M. C. A. has had splendid cooperation from the University Churches Association. Visits of Sherwood Eddy, Hugh Black, and Rabbi Stephen S. Wise, three Go-to-Church Sundays, and six services during Holy Week were promoted through this organization. In the eight years of my

experience we have never had a more able and efficient church leadership, which is as it should be. If the church is to attract students it must provide men who, by their intellect and personality, are able to enlist student interest and having enlisted it, to keep it.

Alumni cooperation has shown gratifying increase during the year, but still leaves much to be desired. We must build up our number of alumni contributors if we are to make permanent, substantial advance.

We would not rest our case on a mere recital of figures, but rather would point to the continuing loyalty to the Association year after year of a significant number of the finest men of the University, a loyalty which is not lightly bestowed. No finer testimony could be offered to the enduring values of a work that is greater than any individual in it, that carries on year after year, not because of a tradition, but because it is constantly demonstrating its right to exist. Broad enough to include all in its fellowship, it recognizes only one Master, and that one whose divinity and authority may at times be challenged, but whose life never will.

We owe acknowledgment to the members of the Faculty and Administration whose aid we have so often asked, to Jeremiah Montgomery whose work with the Freshman Council has been so fine, to Glen Dalton and Miss Smith for loyal cooperation, and to the Student Cabinet for an aggressive leadership. With such associates any man should be challenged to rise above himself.

SUMMARY OF THE FINANCIAL STATEMENT

For the Year Ending June 30, 1927

(A complete detailed financial report for the fiscal year ended June 30, 1927, is printed in separate form and may be had upon application.)

Columbus, Ohio, July 18, 1927

HON. JULIUS F. STONE, *Chairman of Board of Trustees,*
The Ohio State University:

DEAR SIR—The financial statement presented herein is that part of the Annual Report of the Board of Trustees to the Governor of Ohio, which shows the financial condition of The Ohio State University for the fiscal year ended June 30, 1927.

CARL E. STEEB, *Secretary.*

CONSOLIDATED STATEMENT

INCOME AND EXPENDITURES

Cash Balance July 1, 1926		327,047.72
Total Income for year, <i>Schedule B</i>	5,895,137.53	
Less funds paid to State Treasurer and not available for the University	2,471.40	
Total Available Income, <i>Schedule B</i>	5,892,666.13	
Total Expenditures for year, <i>Schedule C</i>	5,859,189.99	
Balance for the year		33,476.14
Cash Balance June 30, 1927, <i>Schedule D</i>		360,523.86

ASSETS AND LIABILITIES

Current Assets June 30, 1927, <i>Schedules D and F</i>	1,133,511.56	
Investment Assets June 30, 1927, <i>Schedules D and F</i>	1,146,687.85	
Educational Plant:		
Value of lands, buildings and equipment, <i>Schedules D and F</i>	14,933,994.00	
Contingent Liabilities June 30, 1927, <i>Schedule F</i>		557,082.27
Investment Liabilities June 30, 1927, <i>Schedule F</i>		1,146,687.85
Capital Account, June 30, 1927, <i>Schedule F</i>		15,510,423.29
	17,214,193.41	17,214,193.41

INCOME

Description	Items	Total
INCOME FROM STUDENTS:		
Tuition and incidental fees, <i>Schedule B-1</i>	535,620.81	
Special fees, degrees, etc	10,384.50	
Gymnasium locker rent	10,154.00	556,159.31
INCOME FROM ENDOWMENTS:		
For general purposes, <i>Schedule G</i>	13,045.88	
For designated purposes, <i>Schedule H</i>	7,354.76	20,400.64

FEDERAL AID:

Land-grant Act of July 2, 1862, <i>Schedule G</i>	31,450.60	
Land Grant—Virginia Military Lands— <i>Schedule G</i>	13,566.72	
Additional Aid—Acts of August 30, 1890, and March 4, 1907.	50,000.00	
Agricultural Extension Work—Acts of May 8, 1914, and July 24, 1919	228,775.06	323,792.38

STATE AID:

Current Expenses, <i>Schedule I</i>	2,880,975.49	
Capital Improvements, <i>Schedule I</i>	581,606.84	
Agricultural Extension, <i>Schedule I</i>	257,368.06	3,719,950.39

GIFTS FOR CURRENT EXPENSES:

For designated purposes, <i>Schedule B-2</i>	15,743.70	15,743.70
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INCOME FROM OTHER SOURCES:

Agricultural Extension

Boys' and Girls' Club Work	5,625.69	
County Agents' Funds from Counties	202,020.72	
Farmers' Institute Funds from Counties	15,750.00	223,396.41

Departmental Earnings

Architecture-Photo	2,408.64	
Brace Shop	3,828.15	
Clinic	2,046.10	
Dental Clinic	19,222.23	
Dispensaries	1,017.80	
Engineering Experiment Station Sales	80.00	
Farm Rotary	82,880.33	
Lantern	16,661.72	
Laundry	521.55	
Ohio Biological Survey	8.25	
University Hospital	72,274.92	
Veterinary Clinic	5,341.28	206,290.97

For Designated Purposes

Class of 1921—Interest on Gift	54.47	
Class of 1923—Interest on Gift	235.34	
Class of 1925—Interest on Gift	167.22	
Class of 1926—Interest on Gift	65.02	
Commutation of Uniforms	60,316.44	
*Miscellaneous Sales	2,469.40	
State Board of Education (Smith-Hughes)	65,807.12	
Sophomore Book Account	13.20	
*Virginia Military Lands	2.00	129,130.21

DORMITORIES AND DINING HALLS:

Home Economics Cafeteria	31,128.97	
Residence Halls for Women	79,783.82	110,912.79

COMMERCIAL ACCOUNTS:

Telephone Account	18,085.82	
University Press—Bookstore	108,774.87	
University Press—Print Shop	77,261.81	
Warehouse	385,238.23	589,360.73

Total Income, *Schedule A* 5,895,137.53

Less funds (*) paid to State Treasurer and not available for the University, *Schedule A* 2,471.40

Total Available Income, *Schedule A* 5,892,666.13

ANNUAL REPORT

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CLASSIFIED EXPENDITURES

EXPENSES:

Salaries	3,219,177.41
Boys' and Girls' Club Work	5,684.21
Coal and gas	107,469.35
Employes and extra labor	188,518.63
Feed for livestock	24,879.01
Field work, Agricultural Extension	120,039.55
Food supplies	40,093.66
Freight and cartage	10,327.11
Incidentals	72,634.01
Laboratory and educational supplies	88,481.51
Materials and general supplies	190,017.35
Printing	68,843.86
Refunds	55,493.00
Repairs to equipment	15,036.10
Scholarships and student aid	9,712.64
Stationery and office supplies	70,267.67
Telephone and telegraph	20,362.73
Traveling expense	25,996.31
Water	23,773.53

Total Expenses, Schedules C-1 and C-2..... 4,356,807.54

EQUIPMENT:

Apparatus	34,347.54
Books	57,809.45
Collections	2,800.00
Furniture and fixtures	110,937.10
Livestock	8,145.36
Machinery, tools, and appliances	30,150.20

Total Equipment, Schedules C-1 and C-3..... 243,689.65

LANDS	21,967.89
NEW BUILDINGS	167,487.78
ADDITIONS TO BUILDINGS	348,182.70
IMPROVEMENTS	51,136.31

Total, Schedules C-1 and C-4..... 588,774.68

DORMITORIES AND DINING HALLS:

Home Economics Cafeteria	30,166.53
Residence Halls for Women	62,335.20

Total Dormitories and Dining Halls 92,501.73

COMMERCIAL:

Telephone	19,841.47
University Press—Bookstore	107,390.12
University Press—Print Shop	76,277.21
Warehouse	373,907.59

Total Commercial 577,416.39

Total Expenditures, Schedules A and C-1..... 5,859,189.99

BALANCE SHEET, JUNE 30, 1927

ASSETS

CURRENT ASSETS:

Cash in bank and on hand for current expense.....	\$ 360,523.86
Deposits	454.00
Auditor of State, Special Appropriations	557,082.27
Warehouse (Supplies per inventory)	215,451.43

INVESTMENT ASSETS:

State Treasurer (irreducible debt of the State).....	1,109,845.47
Ohio State University Treasurer	36,842.38

EDUCATIONAL PLANT:

Lands, Buildings, and Equipment	14,933,994.00
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Total Assets	17,214,193.41
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LIABILITIES

CURRENT LIABILITIES:

Special State Appropriations	557,082.27
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ENDOWMENT FUNDS:

Funds for General Purposes, Invested	967,804.48
Funds for Special Purposes, Invested	178,883.37
Bonds or Mortgages Against Plants	

DEBT AND CAPITAL ACCOUNT:

Bonds or mortgages Against Plant	
Capital Account	15,510,423.29

Total Liabilities	17,214,193.41
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GIFTS FOR GENERAL AND DESIGNATED PURPOSES

The following items are turned into the State Treasury to the credit of Rotary Funds for use by the University:

Altrusa Club	400.00
A gift for the support of a scholarship in the Department of Fine Arts	
Cambridge Sanitary Manufacturing Company	680.00
A gift for the support of a fellowship in the College of Engineering	
Chemistry Students	287.56
A gift for the purchase of bronze tablets designating the names of the laboratories in the New Chemistry Building	
Class of 1926	2,653.67
A gift for the purchase of a bronze statue of Dr. W. O. Thompson	
Class of 1927	1,985.00
A gift for the rehabilitation of Mirror Lake	
E. I. du Pont de Nemours Company.....	1,500.00
A gift for the support of a fellowship in the Department of Chemistry for 1926-1927 and 1927-1928	
E. F. Houghton Company	500.00
A gift for research work in Engineering Experiment Station	
Graduate School	259.00
Gifts for the publication of Doctors Dissertations	
Grasselli Chemical Company	750.00
A gift for the support of a fellowship in the Department of Chemistry	
Faith R. Lanman	628.75
An amount donated by various individuals for the purchase of equipment for Home Economics Nursery	
International Students' Forum	208.08
A gift to establish a Student Loan Fund	
Columbus Women's Club Press Department	125.00
A gift to support the Journalism Scholarship Fund for Women	
National Agricultural Limestone Association	1,600.00
A gift for the support of a fellowship in the Department of Soils	
Ohio Ceramic Industries Association	1,741.64
A gift for research work in the Department of Ceramics	
Edward Orton, Jr.	1,000.00
A gift for the purchase of books for the Orton Memorial Library	
Alfred Vivian, Dean	1,425.00
An amount donated by various companies for research work in connection with the Swiss Cheese Project	
Total	\$15,743.70

APPENDIX I

BOARD OF TRUSTEES—1926-1927

	Date Original Appointment	Terms Expires
Egbert H. Mack, Sandusky.....	December 12, 1922	May 13, 1928
John Kaiser, Marietta.....	February 25, 1915	May 13, 1929
*Julius F. Stone, Columbus.....	March 17, 1925	May 13, 1930
Lawrence E. Laybourne, Springfield.....	May 14, 1921	May 13, 1931
Harry A. Caton, Coshocton.....	May 14, 1925	May 13, 1932
Mrs. Alma W. Paterson, Columbus.....	March 27, 1924	May 13, 1933
Herbert S. Atkinson, Columbus.....	March 17, 1925	May 13, 1934

*Julius F. Stone served also as a member from May 13, 1909 to March 21, 1917.

OFFICERS OF THE BOARD

LAWRENCE E. LAYBOURNE.....	Chairman
EGBERT H. MACK.....	Vice-Chairman
CARL E. STEEB.....	Secretary and Business Manager
CHARLES F. KETTERING.....	Treasurer
O. E. BRADFUTE.....	Assistant Treasurer

APPENDIX II

ADMINISTRATIVE OFFICERS

For the Year Ending June 30, 1927

GEORGE W. RIGHTMIRE.....	<i>President</i>
Office—Administration Building, UN-3148; Campus 312	
Residence—Ohio State University Campus, UN-3148; Campus 274	
WILLIAM OXLEY THOMPSON.....	<i>President Emeritus</i>
Permanent Address—Ohio State University, UN-3148	
CARL E. STEEB.....	<i>Secretary of the Board of Trustees and Business Manager</i>
Office—Administration Building, UN-3148; Campus 332	
Residence—190 West Eleventh Avenue, UN-4732	
EDITH D. COCKINS.....	<i>Registrar, University Editor and Secretary of University Faculty</i>
Office—Administration Building, UN-3148; Campus 314	
Residence—1348 Neil Avenue, UN-9635	
BLAND L. STRADLEY.....	<i>University Examiner</i>
Office—Administration Building, UN-3148; Campus 412	
Residence—289 West Seventh Avenue, UN-0033-M or Canal Winchester No. 71	
GEORGE W. ECKELBERRY.....	<i>Assistant to the President</i>
Office—Administration Building, UN-3148; Campus 380	
Residence—1777 Summit Street; UN-1524-J	
KATHERINE A. VOGEL.....	<i>Executive Clerk</i>
Office—Administration Building, UN-3148; Campus 312	
Residence—209 South Monroe Avenue, FR-2356-W	
CHARLES A. KUNTZ.....	<i>Comptroller</i>
Office—Administration Building, UN-3148; Campus 332	
Residence—265 Tulane Road, UN-2240-J	
FLORIS D. HANE.....	<i>Cashier</i>
Office—Administration Building, UN-3148; Campus 371	
Residence—373 Thirteenth Avenue, WA-1054	

JESSICA FOSTER.....	<i>Acting Dean of Women</i>
Office—Pomerene Hall, UN- 3148; Campus 480	
Residence—1500 Michigan Avenue, UN-2058	
EMMA MCKINLEY PROUT.....	<i>House Superintendent Residence Halls</i>
Office and Residence—Mack Hall, UN-3148; Campus 264	
EDWARD S. DRAKE.....	<i>Manager of Ohio Union</i>
Office and Residence—Ohio Union, UN-3148; Campus 359	
SOPHIE HARGIS BARKER.....	<i>Hostess of Pomerene Hall</i>
Office—Pomerene Hall, UN-3148; Campus 226	
Residence—1457 Neil Avenue, UN-8522-W	
WILLIAM C. MCCracken.....	<i>Chief Engineer and Superintendent of Buildings and Grounds</i>
Office—Service Building, UN-3148; Campus 428	
Residence—1778 North High Street, UN-2492	
RAY M. ROYER.....	<i>Purchasing Agent</i>
Office—Administration Building, UN-3148; Campus 374	
Residence—1828 Arlington Avenue, UN-0918-W	
FRED E. JONES.....	<i>Director of Stores and Receiving Department</i>
Office—Service Building, UN-3148; Campus 354	
Residence—255 Oakland Park Avenue, UN-7024-W	
JOSEPH N. BRADFORD.....	<i>University Architect</i>
Office—Brown Hall, UN-3148; Campus 361	
Residence—55 East Oakland Avenue, WA-2251	

APPENDIX III

CHANGES IN FACULTY

NEW APPOINTMENTS

Hermann C. Miller.....	Assistant Professor of Accounting
Jacob A. O. Larsen.....	Assistant Professor of History
Paul B. Schaeffer.....	Assistant Professor of History
Ralph H. Richards.....	Assistant Professor of Business Organization
George A. Bole.....	Research Professor of Ceramic Engineering
J. Wesley Sternberg.....	Assistant Professor—Commerce Extension
William L. Everett.....	Assistant Professor of Electrical Engineering
Harry G. Good.....	Professor—History of Education
Eve Elizabeth Turnbull.....	Assistant Professor Home Economics
Kenneth B. Simmons.....	Assistant Professor—Horticulture and Forestry
William H. Stone.....	Professor of Industrial Education
Robert M. Hunter.....	Assistant Professor of Law
William H. Rose.....	Assistant Professor of Law
Samuel B. Folk.....	Assistant Professor of Mechanics
Captain Norman Minus.....	Assistant Professor Military Science
Captain Keith K. Jones.....	Assistant Professor Military Science
Captain Don P. Branson.....	Assistant Professor Military Science
Lieutenant John P. Eckert.....	Assistant Professor Military Science
Shirley Armstrong.....	Assistant Professor—Physical Education
Alden P. Winter.....	Assistant Professor—Poultry Husbandry
Catherine M. Forrest.....	Assistant Professor—Public Health
V. R. Wertz.....	Assistant Professor—Rural Economics
E. E. Lewis.....	Professor—School Administration
H. B. Chapman.....	Assistant Professor—School Administration
Willard M. Patty.....	Professor—Vocational Education
J. Ray Stine.....	Assistant Professor—Vocational Education
Charles H. Chase.....	Assistant Professor—Commerce Extension
John C. Troutman.....	Secretary—College of Liberal Arts
Thomas C. Holy.....	Associate Professor of Education and Research Associate

PROMOTIONS

George W. Eckelberry.....	Professor of Accounting to Assistant to the President
Edward C. Buck.....	Assistant Professor to Professor of Anatomy
Charles J. Willard.....	Assistant Professor to Professor—Farm Crops

Fred A. Carlson.....	Assistant Professor to Professor—Geography
Rughina McKay.....	Assistant Professor to Professor—Home Economics
Frederick G. Charles.....	Instructor to Assistant Professor—Horticulture and Forestry
Alonzo H. Tuttle.....	Professor of Law to Acting Dean—College of Law
James H. Weaver.....	Assistant Professor to Professor—Mathematics
Edward V. O'Rourke.....	Instructor to Assistant Professor—Mine Engineering
Albert E. Avey.....	Assistant Professor to Professor—Philosophy
Sidney L. Pressey.....	Assistant Professor to Professor—Psychology
George M. McClure.....	Instructor to Assistant Professor—Soils
Herbert A. Toops.....	Assistant Professor to Professor—Psychology
Wilbur H. Siebert....	Research Professor of History to Acting Dean—College of Liberal Arts

APPENDIX IV

FACULTY INSTRUCTORS AND EMPLOYEES SALARY ROLL

Which shows the number of professors, officers, teachers, and other employees, and the position and compensation of each, as required by Section 7947 of the Ohio General Code:

<i>Name of Employee</i>	<i>Position</i>	<i>Salary</i>
George W. Rightmire	President.....	\$10,000.00
William Oxley Thompson	President Emeritus.....	10,000.00

COLLEGE OF AGRICULTURE

Alfred Vivian	Dean.....	6,250.00
True G. Watson	Secretary of the College.....	3,000.00
Bessie M. Freet	Assistant to the Dean (Stenographer).....	1,320.00
Mary L. Bradfield	Stenographer.....	1,080.00
Nora Peck	Stenographer.....	1,020.00
*Eleanore K. Fisher	Stenographer.....	212.50
Frances Behyner	Stenographer.....	1,020.00
Helen Coleman	Stenographer.....	1,020.00
Jane Allen	Stenographer.....	1,020.00
Helen V. Pyle	Stenographer.....	1,020.00
Margaret Wasem	Stenographer.....	1,020.00
Hazel Monett	Stenographer.....	480.00
Flo Bailey	Stenographer.....	480.00
Cecelia Ryan	Stenographer.....	480.00
*Elizabeth B. Smith	Stenographer.....	100.00
*Ruth Phillips	Stenographer.....	480.00
Beatrice Samson	Stenographer.....	1,020.00
*Lela Bartlett	Stenographer.....	770.67
*Lunda Irwin	Stenographer.....	365.33
*Gertrude Fromm	Stenographer.....	80.00
*Phyllis Burkham	Stenographer.....	402.58
*Mary L. Liberatore	Stenographer.....	180.00

AGRICULTURAL CHEMISTRY

John F. Lyman	Professor.....	4,500.00
R. C. Burrell	Assistant Professor.....	3,000.00
E. F. Almy	Assistant Professor.....	2,700.00
Carl P. Hinkle	Instructor.....	1,500.00
James E. Webster	Assistant.....	900.00
K. Kitsuta	Graduate Assistant.....	500.00

AGRICULTURAL EDUCATION

W. F. Stewart	Professor.....	3,000.00
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AGRICULTURAL ENGINEERING

G. W. McCuen	Professor.....	4,250.00
*C. O. Reed	Professor.....	3,187.50
P. B. Potter	Assistant Professor.....	3,500.00

Benton M. Stahl	Instructor.....	2,700.00
Walter Umbstaetter	Mechanic.....	1,500.00
J. T. Miller	Mechanic.....	1,400.00
*Irvin T. Reed	Graduate Assistant.....	562.50

ANIMAL HUSBANDRY—INSTRUCTIONAL

Carl W. Gay	Professor.....	6,000.00
C. S. Plumb	Professor.....	4,000.00
D. J. Kays	Professor.....	4,000.00
J. S. Coffey	Professor.....	4,000.00
S. M. Salisbury	Professor.....	4,000.00
Walter R. Krill	Graduate Assistant.....	500.00
Herbert M. Gans	Assistant.....	500.00

ANIMAL HUSBANDRY—EMPLOYEES

David M. Fyffe	Superintendent of Live Stock.....	1,800.00
Robert Watson	Groom.....	1,800.00
*Paul Jackson	Dairy Cattle Herdsman.....	1,200.00
William Franklin	Shepherd.....	1,440.00
Judson Solomon	Swine Herdsman.....	1,440.00
Alexander Blockhall	Herdsman.....	1,320.00
Cecil Bayes	Beef Cattle Herdsman.....	1,260.00
L. G. Souders	Assistant Shepherd.....	1,080.00
Ray Garrett	Assistant Herdsman.....	1,320.00
Harry Waters	Laborer.....	1,080.00
Jonathan Alban	Pavilion Groom.....	1,080.00
Jefferson Severe	Laborer.....	1,080.00
Alvin McAdow	Laborer.....	1,080.00
*H. K. Stephenson	Laborer.....	322.26
*Jacob Crider	Laborer.....	733.87
*Herman Harper	Student Laborer.....	60.00
*Robert A. Marshall	Laborer.....	180.00
*Caleb Randall	Laborer.....	900.00
*Robert Straszleim	Student Laborer.....	180.00
*B. L. Cunningham	Laborer.....	678.00
*Lonnie Paxton	Laborer.....	108.39
*Harold Macklin	Laborer.....	200.00
*George Eikenberry	Laborer.....	20.00

BOTANY

E. N. Transeau	Professor.....	5,125.00
H. C. Sampson	Professor.....	4,000.00
J. H. Schaffner	Professor.....	3,500.00
W. G. Stover	Professor.....	3,500.00
A. E. Waller	Assistant Professor.....	3,250.00
L. H. Tiffany	Assistant Professor.....	3,250.00
*J. D. Sayre	Assistant Professor.....	1,800.00
Sherman Humphrey	Instructor.....	1,500.00
*R. A. Dobbins	Instructor.....	875.00
Bernard S. Meyer	Instructor.....	1,875.00
J. S. Crabb	Assistant.....	1,200.00
Minnie Johnson	Graduate Assistant.....	500.00
*Jesse Diller	Graduate Assistant.....	55.00
Olive R. Sands	Assistant.....	500.00
*Wendell H. Camp	Graduate Assistant.....	150.00
Lois Lampe	Instructor.....	1,500.00
Wendell H. Camp	Assistant.....	1,000.00
Hiram F. Thut	Graduate Assistant.....	500.00
George H. Brewer	Graduate Assistant.....	500.00
Esther L. Esper	Graduate Assistant.....	500.00
*Robert B. Gordon	Graduate Assistant.....	445.00
*James M. York	Graduate Assistant.....	165.00

DAIRYING

Oscar Erf	Professor.....	4,500.00
R. B. Stoltz	Professor.....	4,000.00
H. D. Drain	Assistant Professor.....	2,650.00
D. S. Kochheiser	Instructor.....	2,250.00
*J. B. Seelig	Laborer.....	900.00
Harry G. Lindquist	Graduate Assistant.....	500.00
*J. O. Kimbrough	Laborer.....	180.00

FARM CROPS

J. B. Park	Professor.....	4,250.00
C. J. Willard	Professor.....	3,300.00
H. L. Borst	Instructor.....	2,350.00
*R. H. Livingston	Assistant.....	875.00
*Marion T. Meyers	Instructor.....	900.00
*Walter N. Bangham	Assistant.....	55.00
*Joseph B. McLaughlin	Assistant.....	791.00
*Delmar M. Glenn	Student Assistant.....	278.00
*C. C. Harvey	Laborer.....	300.00

FARM OPERATIONS

Thomas D. Phillips	Assistant Professor and Superintendent of Farm.....	3,500.00
John DeWitt	Mechanic.....	1,500.00
Lloyd Blackburn	Mechanic.....	1,320.00
Charles H. Pugh	Head Teamster.....	1,260.00
M. Peck	Teamster.....	1,140.00
John Long	Laborer.....	1,140.00
S. N. Bell	Laborer.....	1,140.00
H. L. Bosart	Laborer.....	1,140.00
A. M. Farley	Laborer.....	1,140.00
Charles Ferguson	Laborer.....	1,140.00
Everett Clark	Laborer.....	1,080.00

FRANZ THEODORE STONE LABORATORY

Raymond C. Osburn	Director.....	500.00
F. H. Kreeker	Assistant Director.....	500.00
C. H. Kennedy	Assistant Professor of Entomology.....	350.00
M. E. Stickney	Instructor in Botany.....	350.00
S. R. Williams	Instructor in Zoology.....	350.00
Theodore Phillips	Caretaker.....	1,500.00
*Ernie Miller	Helper.....	170.32

HOME ECONOMICS

Faith R. Lanman	Professor.....	4,250.00
Grace G. Walker	Professor.....	3,600.00
June Findley	Assistant Professor.....	3,000.00
Hughina McKay	Professor.....	2,800.00
Alice Donnelly	Assistant Professor.....	1,800.00
Eunice Ryan	Instructor.....	2,400.00
*Alta Kizer	Instructor.....	575.00
Elsie Steiger Minton	Instructor.....	2,000.00
Elizabeth C. Cooley	Instructor.....	1,500.00
*Ottillie Rohe	Instructor.....	1,125.00
Glenna Schlitt	Assistant.....	1,400.00
*Pauline W. Snyder	Assistant.....	675.00
Leona P. Starr	Assistant.....	300.00
Mary Ann Graber	Assistant.....	135.00
*Pauline J. Higgy	Assistant.....	187.50
*Eve E. Turnbull	Assistant Professor.....	1,875.00
*Alma Heiner	Instructor.....	1,725.00
Georgene Linn	Assistant.....	900.00
Phoebe Mentzer	Assistant.....	900.00
Agnes Skinner	Assistant.....	405.00

Elsie B. Stiebeling	Student Assistant.....	135.00
Gwendolyn Rector	Student Assistant.....	135.00
*Mary Wynkoop	Student Assistant.....	90.00
*Marian J. Evans	Assistant.....	360.00
*Clara Stewart	Assistant.....	75.00

HORTICULTURAL AND FORESTRY

W. Paddock	Professor.....	4,500.00
*William R. Sears	Professor.....	875.00
L. M. Montgomery	Professor.....	3,300.00
A. C. Hottes	Professor.....	3,000.00
A. D. Taylor	Professor (non-resident).....	750.00
*George L. Lynch	Professor.....	2,375.00
N. W. Sherer	Assistant Professor.....	2,250.00
F. G. Charles	Assistant Professor.....	2,280.00
Elusina Lazenby	Instructor.....	1,500.00
John Morrison	Assistant.....	2,000.00
J. E. Shanck	Assistant.....	1,400.00
Joseph Haigh	Laborer.....	1,100.00
*K. D. Simmons	Professor.....	875.00
*Beatrice George	Assistant.....	100.00
*Walter D. Popliam	Assistant.....	500.00
*Edwin H. Ziegfeld	Student Assistant.....	100.00
*William Patterson	Laborer.....	90.00
*Robert Evans	Laborer.....	100.00

POULTRY HUSBANDRY

E. L. Dakan	Professor.....	4,250.00
Alden R. Winter	Assistant Professor.....	3,000.00
Arthur Bayes	Superintendent Poultry Plant.....	2,000.00
C. E. Florea	Laborer.....	1,200.00
*N. P. Farley	Laborer.....	228.00
*L. T. Garrett	Laborer.....	48.00
*W. T. Farley	Laborer.....	180.00

RURAL ECONOMICS

J. I. Falconer	Professor (part salary).....	2,500.00
C. G. McBride	Assistant Professor.....	2,600.00
C. E. Lively	Assistant Professor.....	2,600.00
F. L. Morrison	Instructor.....	2,500.00
Rose Kiener	Stenographer.....	960.00
Myrtle Souders	Clerk.....	960.00
*Irma Earle	Clerk.....	134.19
John F. Dowler	Assistant.....	360.00
*Dorothy Fuller	Clerk.....	691.61
*Carl R. Arnold	Assistant Professor.....	1,200.00

SOILS

*Firman E. Bear	Professor.....	2,291.66
George M. McClure	Assistant Professor.....	3,000.00
Charles L. Thrash	Instructor.....	3,000.00
Thomas E. Richmond	Assistant.....	900.00
Frederick J. Salter	Assistant.....	600.00
Earl Day	Assistant (Fertility Plots).....	1,080.00
Elbert Stephenson	Assistant (Fertility Plots).....	1,080.00
James W. Jones	Assistant (Fertility Plots).....	1,080.00
*Earl Barnes	Professor (Special).....	2,400.00

ZOOLOGY AND ENTOMOLOGY

Raymond C. Osburn	Professor.....	5,250.00
Herbert Osborn	Research Professor.....	5,000.00
W. M. Barrows	Professor.....	3,450.00
F. H. Kreeker	Professor.....	3,450.00
D. M. DeLong	Professor.....	3,450.00

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W. J. Kostir	Assistant Professor.....	3,450.00
C. H. Kennedy	Assistant Professor.....	3,250.00
James S. Hine	Associate Professor (part time).....	1,000.00
David F. Miller	Instructor.....	1,650.00
Hugh Setterfield	Instructor.....	1,650.00
Winston E. Dunham	Instructor.....	1,500.00
Robert N. McCormick	Instructor.....	1,350.00
John W. Price	Assistant.....	900.00
Marion W. Boesel	Assistant.....	900.00
Mary Talbot	Graduate Assistant.....	500.00
*James K. Holloway	Graduate Assistant.....	332.00
John A. Miller	Graduate Assistant.....	500.00
Joseph N. Miller	Assistant.....	900.00
Grace Townsend	Graduate Assistant.....	500.00
*Harry G. Walker	Graduate Assistant.....	332.00
W. E. Niehaus	Graduate Assistant.....	500.00
*Fay E. Guyton	Instructor.....	650.00
*David F. Miller	Instructor.....	650.00
Morris Schlosberg	Assistant.....	300.00
Hugh H. Miley	Assistant.....	900.00
Wilbur M. Tidd	Graduate Assistant.....	500.00
*Lydia A. Jahn	Graduate Assistant.....	166.66
*Donald A. Wilbur	Graduate Assistant.....	166.66

COLLEGE OF LIBERAL ARTS

W. E. Henderson	Dean (July to December).....	3,000.00
W. H. Siebert	Acting Dean (January to June).....	3,250.00
S. M. Whinery	Secretary to the College.....	2,700.00
Ruth Evans	Stenographer.....	1,260.00
*Ethel Sanders	Stenographer.....	120.00
Helen L. Crew	Stenographer.....	960.00
*Celia Rogers	Stenographer.....	926.45
*Mary Hentze	Stenographer.....	291.61
*Alice Kelley	Stenographer.....	749.33
*Margaret Smith	Stenographer.....	560.00
*C. Troutman	Acting Secretary.....	341.67
*George A. Washburne	Secretary Pro Tempore.....	200.00

ASTRONOMY

E. S. Manson	Professor.....	3,250.00
*Thomas E. Noble	Student Assistant.....	100.00
*Donald H. Menzel	Assistant Professor.....	750.00
*David A. Goodman	Student Assistant.....	500.00
*Earl L. Williams	Instructor.....	1,950.00

CLASSICAL LANGUAGES

M. B. Ogle	Professor.....	5,500.00
George M. Bolling	Professor.....	5,000.00
A. W. Hodgman	Professor.....	4,000.00
W. S. Elden	Professor.....	4,000.00
Stanley B. Smith	Instructor.....	3,000.00

ENGLISH

J. V. Denney	Professor.....	6,000.00
G. H. McKnight	Professor.....	4,750.00
J. R. Taylor	Professor.....	4,875.00
C. E. Andrews	Professor.....	4,500.00
W. L. Graves	Professor.....	4,750.00
E. L. Beck	Professor.....	4,000.00
Milton Percival	Professor.....	3,500.00
*V. A. Ketcham	Professor (Special).....	1,166.66
Harold R. Walley	Assistant Professor.....	3,000.00

E. W. Wiley	Assistant Professor.....	2,750.00
Manning Smith	Assistant Professor.....	2,750.00
Sada Harbarger	Assistant Professor.....	2,500.00
J. F. Craig	Instructor.....	2,500.00
Hayes Yeager	Instructor.....	2,500.00
Harlan Hatcher	Instructor.....	2,500.00
*William C. Frierson	Instructor.....	1,875.00
Edith Sniffen	Instructor.....	2,000.00
Herman Miller	Instructor.....	2,000.00
Gertrude L. Robinson	Instructor.....	2,000.00
Thomas C. Pollock	Instructor.....	2,000.00
James Fullington	Instructor.....	2,150.00
J. Harold Wilson	Instructor.....	1,800.00
Roy N. Owsley	Instructor.....	1,800.00
Bert Emsley	Instructor.....	1,800.00
Clyde S. Nesbitt	Instructor.....	1,800.00
*Robert J. Kane	Instructor.....	1,350.00
Mary R. Rhodes	Instructor.....	1,500.00
Mary A. Hitchcock	Instructor.....	1,500.00
Lily Schindelman	Assistant.....	1,080.00
Miles M. Graham	Assistant.....	1,000.00
Tom B. Haber	Assistant.....	1,000.00
James Chalfant	Assistant.....	1,000.00
*C. M. Coffin	Assistant.....	491.62
Joseph Waters	Assistant.....	1,000.00
Bryan C. Kerr	Assistant.....	1,000.00
*Joseph Ayres	Assistant.....	333.00
*Virginia Neff	Graduate Assistant.....	166.00
Louis L. Taylor	Graduate Assistant.....	500.00
George A. Finch	Graduate Assistant.....	500.00
Elmer McCue	Graduate Assistant.....	500.00
Elizabeth Best	Graduate Assistant.....	500.00
Clara Schnurer	Graduate Assistant.....	500.00
*Roselyn Beltz	Graduate Assistant.....	165.00
*Marion Eliot	Graduate Assistant.....	165.00
*Cyrus K. Carroll	Assistant.....	165.00
*Eugene Sloan	Graduate Assistant.....	166.00
Freda Schulz	Graduate Assistant.....	500.00
Lawrence E. Snyder	Graduate Assistant.....	500.00
S. K. Workman	Graduate Assistant.....	500.00
Dorothy Hyde	Graduate Assistant.....	500.00
Harry P. Jeffrey	Assistant.....	1,000.00
Florence Denton	Assistant.....	1,000.00
James Glenn Ross	Assistant.....	1,000.00
Catherine E. Biesecker	Graduate Assistant.....	500.00
Geneve Stephenson	Graduate Assistant.....	500.00
Doris P. Buck	Graduate Assistant.....	500.00
Florence Moore	Graduate Assistant.....	500.00
*Marion F. Elliott	Graduate Assistant.....	167.00

GEOLOGY

J. A. Bownocker	Professor.....	4,750.00
J. E. Carman	Professor and Curator.....	4,000.00
Edmund M. Spieker	Assistant Professor.....	3,437.50
R. E. Lamborn	Instructor.....	2,250.00
Waldo S. Glock	Instructor.....	2,250.00
Grace Stewart	Instructor.....	2,000.00
MacLeod E. Hurst	Instructor.....	2,000.00
P. B. Stockdale	Instructor.....	2,000.00
J. J. Wolford	Graduate Assistant.....	500.00
*Wilbur Stout	Lecturer.....	300.00
*J. E. Schaeffer	Student Assistant.....	100.00
*Clifford Winnette	Student Assistant.....	100.00
*John L. Wilson	Student Assistant.....	100.00

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GERMAN

M. B. Evans	Professor.....	5,000.00
L. Bloomfield	Professor.....	4,250.00
B. A. Eisenlohr	Professor.....	3,600.00
Ernst Feise	Assistant Professor.....	3,600.00
May Thomas	Assistant Professor.....	2,350.00
Oswald Roseler	Instructor.....	3,000.00
*Robert O. Roseler	Instructor.....	333.33

HISTORY

Carl Wittke	Professor.....	5,000.00
G. W. Knight	Professor.....	5,000.00
*W. H. Siebert	Professor.....	2,500.00
Arthur C. Cole	Professor.....	5,000.00
H. C. Hockett	Professor (Special).....	3,500.00
*J. A. O. Larsen	Assistant Professor.....	2,625.00
Paul B. Schaeffer	Acting Assistant Professor.....	3,500.00
G. A. Washburne	Assistant Professor.....	3,250.00
Lawrence F. Hill	Assistant Professor.....	2,937.50
A. H. Noyes	Assistant Professor.....	2,750.00
Eugene Roseboom	Instructor.....	2,437.50
Paul H. Clyde	Instructor.....	2,250.00
F. P. Weisenburger	Instructor.....	2,000.00
William T. Utter	Instructor.....	2,000.00
John LaMonte	Instructor.....	2,000.00
Thornton P. Terhune	Instructor.....	2,000.00
W. B. Hesseltine	Graduate Assistant.....	1,000.00
Ruhl J. Bartlett	Graduate Assistant.....	1,000.00
*Clarence E. Carter	Professor.....	1,000.00
*Warren S. Tryon	Instructor.....	500.00
*Truth Daniel	Assistant.....	138.16
*Mary C. Hardgrove	Assistant.....	138.16
*Martha J. Hillhouse	Assistant.....	38.16
*George N. Krummer	Assistant.....	38.16
*Carl Zangmeister	Assistant.....	125.00
*Elizabeth G. Wilson	Assistant.....	40.00
*Alta J. Brady	Assistant.....	60.00

PHILOSOPHY

J. A. Leighton	Professor.....	5,875.00
George H. Sabine	Professor.....	5,000.00
A. R. Chandler	Professor.....	3,500.00
A. E. Avey	Professor.....	3,500.00
*O. L. Reiser	Instructor.....	500.00
*Marvin Farber	Instructor.....	500.00
Ralph J. Slatery	Graduate Assistant.....	500.00
William H. Reither	Assistant.....	1,000.00
*William A. Shimer	Instructor.....	1,500.00
Donald H. Daugherty	Instructor (part time).....	1,000.00

POLITICAL SCIENCE

Henry R. Spencer	Professor.....	5,000.00
F. W. Coker	Professor.....	5,000.00
Frank Paddock	Instructor.....	2,000.00
E. A. Helms	Instructor.....	2,000.00
*John M. Mathews	Professor.....	1,000.00
Charles W. Shull	Assistant.....	250.00
William C. Moore	Assistant.....	250.00
*Flora May Fearing	Instructor.....	750.00

ROMANCE LANGUAGES

W. S. Hendrix	Professor.....	4,625.00
George R. Havens	Professor.....	5,500.00
Robert E. Rockwood	Professor.....	4,250.00

Olin H. Moore	Professor.....	4,200.00
Claude E. Anibal	Assistant Professor.....	3,500.00
G. Oscar Russell	Assistant Professor.....	3,500.00
Santiago Gutierrez	Assistant Professor.....	3,250.00
Robert Foure	Assistant Professor.....	3,250.00
Theodore E. Hamilton	Assistant Professor.....	2,500.00
Gertrude Walsh	Instructor.....	2,500.00
Emily Schons	Instructor.....	2,000.00
Helen Foure	Instructor.....	2,000.00
Dwight M. Brooks	Instructor.....	2,000.00
Bertha P. Arthur	Instructor.....	1,900.00
Harry Russell	Instructor.....	2,000.00
Dwight F. Donan	Instructor.....	2,000.00
Lura M. Jewell	Assistant.....	1,800.00
Jose Palomo	Assistant.....	1,800.00
T. R. Wiley	Assistant.....	1,800.00
Marie Davis	Assistant.....	1,500.00
Dorothy Porter	Assistant.....	1,500.00
Lucile Mercer	Assistant.....	1,350.00
Erwin H. Price	Assistant.....	2,000.00
Harry W. Rogers	Assistant.....	1,500.00
*Louis Allen	Professor.....	1,000.00
*W. C. Smyser	Instructor.....	600.00
Marguerite Maddox	Assistant.....	1,350.00
*A. H. Schutz	Assistant Professor.....	300.00
Ralph H. Waltz	Assistant.....	1,350.00
*Frank K. Guthrie	Assistant.....	700.00
*Thelma Schoonover	Laboratory Assistant.....	19.20
*Jose L. Campana	Laboratory Assistant.....	38.40
*D. Cabarga Rojas	Laboratory Assistant.....	57.60
*F. S. Castrillo	Laboratory Assistant.....	38.40
*Miriam Stafford	Laboratory Assistant.....	38.40

COLLEGE OF COMMERCE AND JOURNALISM

Clyde O. Ruggles	Dean.....	6,250.00
Claire Harmeyer	Assistant to the Dean.....	2,250.00
Nell Gainer	Stenographer.....	1,500.00
Bertha C. Caley	Stenographer.....	1,200.00
Mary Fodey	Stenographer.....	1,020.00
*Mary H. Driesbach	Stenographer.....	209.67
Katherine Uhrig	Stenographer.....	960.00
*Mabel Ely	Stenographer.....	194.67
Esther Wilhelm	Stenographer.....	960.00
Dorothy Garrett	Stenographer.....	1,005.00
Alice Heer	Telephone Operator.....	960.00
*Mary Tobin	Stenographer.....	765.33
*Leola D. Sauls	Stenographer.....	149.33
*LeEvelyn Gillam	Stenographer.....	247.74
*Ruth Schumacher	Stenographer.....	247.74

ACCOUNTING

Howard C. Greer	Professor.....	4,062.50
*H. C. Miller	Assistant Professor.....	2,250.00
R. S. Wilcox	Instructor.....	2,687.50
Dallas S. Bolon	Instructor.....	2,475.00
D. M. Shonting	Instructor.....	2,300.00
H. K. Casterton	Instructor.....	1,800.00
Olin E. Thomas	Assistant.....	1,500.00
W. D. Wall	Lecturer.....	800.00
*Josephine Lowrie	Assistant.....	200.00
George E. Hile	Assistant.....	920.00
*Elton H. Schulenberg	Assistant.....	100.00

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Walter C. Weidler	Professor.....	5,000.00
Harold H. Maynard	Professor.....	4,375.00
Charles A. Dice	Professor.....	3,700.00
Felix E. Held	Professor.....	3,900.00
C. W. Reeder	Assistant Professor.....	4,888.88
Ralph C. Davis	Assistant Professor.....	3,600.00
Montgomery E. Pike	Assistant Professor.....	3,200.00
*Ralph H. Richards	Assistant Professor.....	2,250.00
Theodore N. Beckman	Assistant Professor.....	2,700.00
H. H. Shively	Assistant Professor.....	1,500.00
*Marvin L. Fair	Instructor.....	1,350.00
George W. Starr	Instructor (part salary).....	996.00
*Donald C. Power	Instructor.....	1,875.00
Elvin F. Donaldson	Assistant.....	1,800.00
Robert D. McGinnis	Assistant.....	1,000.00
Cary W. Bowers	Assistant.....	1,050.00
*E. G. Baird	Assistant.....	500.00
Leslie Arnold	Reader.....	150.00
*Carter Kissell	Reader.....	100.00
*Elton Schulenberg	Reader.....	100.00
Paul Buehler	Reader.....	150.00
Robert B. Lewis	Reader.....	150.00
*Milton L. Nelson	Assistant Professor.....	750.00
*George W. Terborgh	Instructor.....	450.00
*William H. Kaufman	Instructor.....	1,300.00
*Roy G. Davis	Assistant.....	671.66
*Richard W. Gordon	Reader.....	50.00
*James H. Wilson	Reader.....	50.00

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A. B. Wolfe	Professor.....	5,500.00
H. G. Hayes	Professor.....	5,000.00
H. F. Walradt	Professor.....	3,875.00
*D. H. Buchanan	Assistant Professor.....	875.00
*L. Edwin Smart	Instructor.....	1,316.66
Louise Stitt	Instructor.....	2,425.00
Edison L. Bowers	Instructor.....	2,375.00
Morris F. Fergus	Assistant.....	1,167.00
Dale Pontius	Reader.....	150.00
*Marvin G. Wright	Reader.....	166.00
Tom L. Wheeler	Reader.....	150.00
*Benson Smith	Reader.....	50.00
B. L. Owen	Reader.....	300.00
Jacob Davis	Reader.....	150.00
R. E. Appleman	Reader.....	150.00
William M. Adams	Reader.....	150.00
*Melvin Maurer	Reader.....	50.00
*John D. Blanchard	Assistant.....	333.33
*Helen E. Cherington	Reader.....	50.00
*Ralph L. Dewey	Instructor.....	1,875.00
Donald C. Horton	Assistant.....	1,000.00
*Clifford L. James	Assistant.....	666.00
Robert D. Patton	Assistant.....	1,000.00
R. H. Roundtree	Assistant.....	1,000.00
*Virgil Willit	Instructor.....	1,875.00
Richard T. Stevens	Assistant.....	1,000.00
Royal E. Davis	Assistant.....	1,000.00
Raymond H. Moffett	Assistant.....	1,000.00
*Gene Wilson	Reader.....	100.00

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Roderick Peattie	Professor.....	3,500.00
Fred A. Carlson	Professor.....	3,500.00
Harold C. Fischer	Assistant.....	1,500.00
Webster L. Davis	Assistant.....	1,450.00
Stella Huntington	Assistant.....	300.00
*Grace Taylor	Reader.....	100.00
Paul C. Morrison	Reader.....	150.00
H. H. Eigensee	Reader.....	150.00
Carl D. Varvel	Assistant.....	1,300.00
Benjamin F. Lemert	Assistant.....	650.00
*Arthur S. Coningsby	Reader.....	50.00

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L. J. Morrill	Instructor.....	300.00
Russell H. Reeves	Editor, Lantern.....	500.00
Elmer C. Tryon	Business Manager, Lantern.....	500.00
John G. Price, Jr.	Editor, Lantern.....	100.00
Elmer C. Tryon	Business Manager, Lantern.....	100.00
Lynn H. Holcomb	Reader.....	150.00

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C. C. North	Professor.....	5,000.00
F. E. Lumley	Professor.....	5,000.00
*Mary L. Mark	Professor.....	1,752.78
Elsie V. Jones	Assistant Professor.....	3,600.00
Perry P. Denune	Instructor.....	2,825.00
Louise M. Spaeth	Instructor.....	2,100.00
Wm. J. Blackburn	Assistant.....	2,499.34
W. C. Mills	Lecturer.....	500.00
Oscar Wesley	Assistant.....	200.00
W. E. Payne	Reader.....	150.00
*T. C. Wang	Instructor.....	1,125.00
B. S. Mason	Reader.....	300.00
*Mrs. Perry P. Denune	Lecturer.....	100.00
*Mary L. Kelser	Assistant.....	180.00
*R. L. Dewey	Assistant.....	150.00
*Julia Griggs	Assistant.....	400.00
*Solomon Ozer	Reader.....	50.00

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Irwin A. Bottenhorn	Professor.....	4,300.00
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Ollie O. Mobberly	Superintendent Laboratories.....	2,400.00
Clyde H. Hebble	Assistant Professor.....	1,700.00
William C. Graham	Assistant Professor.....	1,300.00
R. B. Wiltberger	Assistant Professor.....	1,000.00
Herbert S. Shumway	Instructor.....	1,800.00
Charles W. Strosnider	Instructor.....	1,500.00
Dick P. Snyder	Instructor.....	1,200.00
Louis E. Reif	Instructor.....	1,200.00
Carl O. Boucher	Student Assistant.....	200.00

COLLEGE OF EDUCATION

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R. D. Bennett	Secretary of the College.....	3,000.00
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*Wanda Rittenhouse	Stenographer.....	640.00
*Loraine Scholtz	Stenographer.....	900.00
L. Eleanor Tress Henderson	Stenographer (Clerk).....	1,080.00
*Louise C. Jones	Stenographer.....	316.45
*Pauline C. Egbert	Stenographer.....	885.64
Anne C. Beaman	Clerk.....	1,020.00
Regina Wertz	Stenographer.....	1,020.00
Marjorie C. Renz	Stenographer.....	1,020.00
Mary Mayhugh	Stenographer.....	1,125.00
*Gertrude H. McDonald	Stenographer.....	160.00
Rosette Defenbaugh	Stenographer.....	980.00
Lillian E. Browne	Stenographer.....	960.00
Frances Andrews	Stenographer.....	960.00
Rowena Richardson	Stenographer.....	960.00
*Doris Kiner	Stenographer.....	180.00
Audrey Inboden	Stenographer.....	941.94
*Musetta McKnight	Stenographer.....	134.36
*Rosemond B. Frater	Stenographer.....	741.33
*Alice Savage	Stenographer.....	760.65
*Edna Houghton	Stenographer.....	47.28
*William Papier	Stenographer.....	362.86
*Lura B. Chamblin	Stenographer.....	86.07
*Virginia Slagle	Clerk.....	130.00

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*P. R. Stevenson	Professor.....	3,610.43
J. L. Clifton	Professor.....	5,633.32
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Josephine MacLatchy	Editorial Assistant.....	2,750.00
*Eve Finson	Editorial Assistant.....	300.00
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Helen V. Brown	Proofreader.....	1,375.00
Adelaide Gardner	Secretary.....	1,200.00
*Samuel S. Brooks	Research Assistant.....	200.00
Ruth Graham	Comptometer Operator.....	1,050.00
*Joseph A. Bear	Research Assistant.....	1,000.00
*H. O. Koch	Research Assistant.....	200.00
Ruth Seeger	Bibliographical Assistant.....	1,500.00
*James L. LaPoe	Research Assistant.....	950.00
*Marian LeCheverell	Editorial Assistant.....	1,500.00
*Thomas C. Holy	Assistant Professor.....	277.08

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Alma Knauber	Instructor.....	2,350.00
Erwin F. Frey	Instructor.....	2,250.00
*E. W. Rannells	Instructor.....	500.00
Elizabeth C. Joyce	Instructor.....	1,750.00
Ted C. Lewis	Instructor.....	1,750.00
*Pleasant McIntosh	Instructor.....	375.00
Hoyt L. Sherman	Assistant.....	750.00
Mabel Debra	Instructor.....	500.00
*Guy W. Wiser	Instructor.....	1,125.00
*Will Rannells	Instructor.....	1,500.00
*George E. Merkel	Assistant.....	500.00

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*H. G. Good	Professor.....	3,375.00
R. H. Eckeberry	Assistant Professor (special).....	1,812.50
*Elva Adams	Instructor.....	437.50
*William D. Overman	Assistant.....	250.00
*Florence R. Kamber	Assistant.....	250.00
*Eleanor McClain	Assistant.....	250.00
*C. H. Hindley	Professor.....	1,000.00
*Florence R. Kamber	Assistant.....	750.00

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William H. Stone	Professor.....	4,800.00
W. E. Warner	Assistant Professor.....	3,750.00
R. E. Smith	Assistant Professor.....	4,088.88

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R. D. Hughes	Professor.....	6,000.00
*Florence L. Shute	Assistant Professor.....	700.00
*E. W. Morphy	Assistant Professor.....	600.00
*Ada E. Bicking	Assistant Professor.....	600.00
*Helen Colley	Instructor.....	500.00
*Janet White	Instructor.....	200.00
*Olwyn Jones	Accompanist.....	100.00
*Mabel F. Hayes	Assistant.....	125.00

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Boyd H. Bode	Professor.....	6,250.00
V. T. Thayer	Professor.....	5,000.00
Orville G. Brim	Professor.....	5,000.00
E. W. Pahlow	Professor.....	4,750.00
George R. Twiss	Professor.....	3,437.50
F. C. Landsittel	Assistant Professor.....	3,500.00
H. G. Hullfish	Instructor.....	2,750.00
H. B. Alberty	Instructor.....	2,750.00
N. S. Maddox	Instructor.....	2,600.00
T. L. Scholtz	Instructor.....	2,500.00
Raymond C. Guthrie	Assistant.....	1,500.00
*Henry Neuman	Professor.....	1,500.00
*Phillip Boas	Assistant Professor.....	1,500.00
*George S. Counts	Professor.....	800.00
*Cassie Spencer	Assistant Professor.....	600.00
*Ethel M. Brown	Assistant Professor.....	600.00
*Gladys Riden	Assistant.....	250.00
*Pedro T. Orata	Assistant.....	250.00
*Edna Kelsey	Assistant.....	250.00
*E. F. Van Buskirk	Assistant.....	1,000.00
*John Smith	Assistant.....	500.00
*F. Herrick Connors	Assistant.....	300.00
*Franklin P. Kaiser	Instructor.....	800.00

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H. H. Goddard	Professor.....	6,000.00
Francis N. Maxfield	Professor.....	5,000.00
Albert P. Weiss	Professor.....	4,500.00
Harold E. Burtt	Professor.....	4,500.00
William R. Wilson	Assistant Professor.....	4,500.00
Herbert A. Toops	Professor.....	5,145.82
Samuel Renshaw	Assistant Professor.....	3,750.00
Sidney L. Pressey	Professor.....	3,500.00
Robert D. Williams	Assistant Professor.....	3,500.00
A. Sophie Rogers	Assistant Professor.....	2,750.00

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Carl N. Rexroad	Instructor.....	2,750.00
*Robert H. Seashore	Instructor.....	625.00
Luella C. Pressey	Instructor.....	2,250.00
Bertha C. Koch	Instructor.....	2,000.00
Earl B. South	Instructor.....	2,000.00
Albert L. Henderson	Instructor.....	2,000.00
*H. J. Peterson	Instructor.....	1,500.00
M. A. Durea	Assistant.....	2,000.00
I. Lynn Hampton	Assistant.....	2,000.00
*Zoe E. Leatherman	Assistant.....	1,800.00
*Harold A. Edgerton	Assistant.....	750.00
*Vernon L. Miller	Assistant.....	750.00
*Irma Loeb	Assistant.....	500.00
*Bert A. Nash	Instructor.....	750.00
*E. R. Pfeiderer	Assistant.....	500.00
*Dean A. Worcester	Assistant Professor.....	800.00
*M. J. Zigler	Assistant Professor.....	750.00
*Carolyn G. Shover	Assistant.....	250.00
*Clyde W. Gleason	Instructor.....	1,875.00
Lorin Thompson	Instructor.....	2,000.00
Jessie Ferguson	Instructor.....	1,200.00
Harold V. Gaskill	Assistant.....	750.00
Carolyn Shover	Assistant.....	500.00
Dorothy Postle	Assistant.....	500.00
Catherine A. Miles	Graduate Assistant.....	500.00
Ruth V. Johnson	Graduate Assistant.....	500.00
*Amalie K. Nelson	Instructor.....	1,125.00
Dorothy Palmer	Graduate Assistant.....	500.00
*Charles S. Clucas	Instructor.....	750.00
*H. Lee Jones	Instructor.....	450.00

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C. C. McCracken	Professor.....	4,750.00
*J. C. Morrison	Professor.....	1,375.00
W. G. Reeder	Assistant Professor.....	3,800.00
Arch O. Heck	Assistant Professor.....	3,750.00
E. C. Bowman	Graduate Assistant.....	900.00
*H. E. Michael	Graduate Assistant.....	100.00
*Frederick R. Rogers	Assistant Professor.....	1,000.00
*Clyde R. Miller	Lecturer.....	500.00
*Margaret McCloud	Assistant.....	200.00
*H. L. McMillan	Graduate Assistant.....	200.00
*George F. Zook	Professor.....	1,000.00
*George M. Wiley	Professor.....	900.00
*Edward D. Roberts	Professor.....	800.00
*F. T. Goodier	Professor.....	900.00
*Wilford M. Aiken	Professor.....	600.00
*J. J. Oppenheimer	Assistant Professor.....	750.00
*E. E. Farquar	Assistant Professor.....	600.00
*Azariah B. Sias	Professor.....	750.00
*Charles H. Lake	Professor.....	600.00
*Harry S. Ganders	Assistant Professor.....	600.00
*Roland G. Will	Graduate Assistant.....	100.00
*Roland G. Will	Graduate Assistant.....	500.00
*Erwin E. Lewis	Professor.....	4,875.00
*H. B. Chapman	Assistant Professor.....	400.00
*Ward G. Reeder	Assistant Professor (Special).....	800.00

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*A. Sorensen	Assistant Professor.....	600.00
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*Frances C. Rannels	Clerk.....	200.00
Annette Shugert	Stenographer.....	1,080.00
Mina Kennedy	Stenographer.....	1,020.00
*Roxanna Rader	Stenographer.....	255.00
Alberta Williams	Stenographer.....	960.00
Catherine Luff	Stenographer.....	960.00
*Katherine Fraser	Stenographer.....	328.00
Edith A. Patterson	Stenographer.....	960.00
*Dorothy B. Patton	Stenographer.....	240.00
Effa Harm	Stenographer.....	840.00
*Elizabeth Ninceheiser	Stenographer.....	823.00
*Edna P. Ruffner	Stenographer.....	80.00
*Mabel Vesper	Stenographer.....	400.00
*Ada Riggins	Stenographer.....	749.33
*Anna M. Scobie	Stenographer.....	658.06
*Elizabeth Rice	Stenographer.....	610.66
*Mabel E. Guisinger	Stenographer.....	90.00
*Elizabeth Cleaver	Clerk.....	90.00
*Ruth Shaw	Clerk.....	133.57

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*Clarence R. Ellis	Instructor.....	2,000.00

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Galen F. Oman	Instructor.....	2,350.00
Richard S. Buck	Instructor.....	2,150.00
*Richard C. Gosline	Student Assistant.....	200.00
*Ralph M. Line	Student Assistant.....	100.00

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Mrs. F. G. Charles	Program Manager.....	2,000.00
M. F. McDowell	Radio Operator.....	2,000.00
*Rose Thall	Stenographer.....	720.00
*Robert J. Coleman	Announcer.....	250.00
*Aneta Lawler	Stenographer.....	80.00
*Emma Franz	Stenographer.....	99.61

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*George A. Bole	Research Professor.....	975.00
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Thomas M. Felton	Assistant.....	900.00
John Lysatt	Technician.....	1,000.00
*Frank C. Westendick	Instructor.....	300.00

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Albert H. Vilbrandt	Instructor.....	2,350.00
Wilson F. Brown	Instructor.....	2,000.00
*E. P. Arthur	Instructor.....	1,166.66

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*Ernest N. Waxbom	Assistant.....	1,088.00
*George N. Vanderborgh	Assistant.....	1,000.00
*Wai Yang	Student Assistant.....	66.66
*Frank L. Durr	Graduate Assistant.....	266.66

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Edward Mack	Professor.....	4,500.00
Cecil E. Boord	Professor.....	4,000.00
Jesse E. Day	Assistant Professor.....	4,750.00
Wesley G. France	Assistant Professor.....	3,250.00
Marion Hollingsworth	Assistant Professor.....	2,700.00
Cloyd D. Looker	Assistant Professor.....	2,387.50
Edgar B. Bloom	Assistant.....	1,000.00
William R. Cornthwaite	Assistant.....	1,000.00
Roy E. Graves	Assistant.....	1,000.00
Ralph H. Ferguson	Assistant.....	1,000.00
Virgil L. Hansley	Assistant.....	1,000.00
William D. Nicoll	Assistant.....	1,000.00
Harold P. Klug	Assistant.....	1,000.00
Warner J. Merrill	Assistant.....	1,000.00
David C. O'Donnell	Assistant.....	1,000.00
George T. Rankin	Assistant.....	1,000.00
William R. Stemen	Assistant.....	1,000.00
George C. Strouse	Assistant.....	1,000.00
Robert K. Summerbell	Assistant.....	1,000.00
Robert W. Collins	Part-time Assistant.....	500.00
Alpha J. Will	Part-time Assistant.....	500.00
George M. Strong	Part-time Assistant.....	500.00
Earl E. Beard	Graduate Assistant.....	500.00
Crayton K. Black	Graduate Assistant.....	500.00
Anne D. Caldwell	Graduate Assistant.....	500.00
W. Fred Underwood	Graduate Assistant.....	500.00
Charles E. Clifton	Graduate Assistant.....	500.00
Paul M. Wright	Graduate Assistant.....	500.00
Harold S. Everhart	Graduate Assistant.....	500.00
Winfield S. Hechert	Graduate Assistant.....	500.00
Robert C. Hockett	Graduate Assistant.....	500.00
Warren A. Kramer	Graduate Assistant.....	500.00
J. Frank Lewis	Graduate Assistant.....	500.00
Elwyn B. Krause	Graduate Assistant.....	500.00
Maryann P. Matuszak	Graduate Assistant.....	500.00
Sam P. Simpson	Graduate Assistant.....	500.00
Joseph B. Littman	Graduate Assistant.....	500.00
Daniel E. Strain	Graduate Assistant.....	500.00
Kermit Groves	Graduate Assistant.....	500.00
Karl B. Nordstrom	Graduate Assistant.....	500.00
Elmer F. Schroeder	Graduate Assistant.....	500.00
Bernard H. Shoemaker	Graduate Assistant.....	500.00
*Arthur B. Wilder	Graduate Assistant.....	166.00
Justin L. Bussies	Graduate Assistant.....	500.00
Rollin F. Conaway	Graduate Assistant.....	500.00
Harry B. Dykstra	Graduate Assistant.....	500.00
Joseph W. Sutliff	Graduate Assistant.....	500.00
William C. Barnett	Student Assistant.....	250.00
*Joseph F. Haskins	Assistant Professor.....	750.00
Anna L. Hoffman	Graduate Assistant.....	500.00
Stanley R. Detrick	Graduate Assistant.....	500.00
Marian M. Stiers	Graduate Assistant.....	500.00
James A. Funkhauser	Graduate Assistant.....	500.00
Austin F. Lehmann	Graduate Assistant.....	500.00
Lewis E. Mong	Student Assistant.....	250.00
*Pierce Robson	Student Assistant.....	166.00

*William Strobach	Student Assistant.....	83.00
C. E. Gross	Student Assistant.....	250.00
*Thomas O. Treharne	Graduate Assistant.....	445.00
*Mendel E. Lash	Graduate Assistant.....	334.00
*Ralph R. Brown	Student Assistant.....	139.00
*Harold E. Wright	Student Assistant.....	83.33

CIVIL ENGINEERING

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C. T. Morris	Professor.....	5,250.00
*John C. Prior	Professor.....	5,187.50
R. C. Sloane	Professor.....	3,250.00
J. R. Shank	Professor.....	3,000.00
E. F. Coddington	Professor (part salary).....	3,125.00
J. C. Merrell	Assistant Professor.....	2,250.00
J. M. Montz	Assistant Professor.....	2,250.00
Robert W. Byrns	Instructor.....	2,000.00
C. H. Wall	Instructor.....	2,000.00
*Milton Hegler	Instructor.....	750.00

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J. C. Merrell	Assistant Professor.....	390.00
C. H. Wall	Instructor.....	300.00
Thomas Williamson	Cook.....	150.00

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J. E. Shepherdson	Assistant Professor.....	2,500.00
E. E. Kimberly	Assistant Professor.....	2,250.00
Thomas C. Lloyd	Instructor.....	1,800.00
Kwan Yau Tang	Instructor.....	1,500.00
*Philip E. Rush	Assistant.....	400.00
*Robert Hughes	Mechanician (Assistant).....	450.00
A. G. Conrad	Assistant.....	1,000.00
Robert E. Eberts	Laborer.....	870.00
*Paul E. Crouch	Student Assistant.....	200.00
*Jesse E. Jones	Student Assistant.....	200.00
*Carl L. Goodlin	Student Assistant.....	200.00
*Norman F. Agnew	Student Assistant.....	200.00
*Theodore R. Johnson	Student Assistant.....	200.00
*Edward F. Dempsey	Student Assistant.....	200.00
*W. L. Everitt	Assistant Professor.....	2,250.00
*Ray K. Windham	Student Assistant.....	200.00
*Alfred A. Roetken	Student Assistant.....	400.00
*Earl B. McDowell	Assistant.....	1,200.00

ENGINEERING DRAWING

Thomas E. French	Professor.....	5,375.00
Robert J. Meiklejohn	Professor.....	3,700.00
W. D. Turnbull	Professor.....	3,350.00
O. E. Williams	Professor.....	3,200.00
John M. Russ	Assistant Professor.....	2,850.00
W. B. Field	Assistant Professor.....	2,850.00
Ralph Paffenbarger	Assistant Professor.....	2,600.00
Allen P. McManigal	Instructor.....	2,250.00
Charles D. Cooper	Instructor.....	1,800.00
Lawrence D. Jones	Instructor.....	1,800.00
Louis D. Lutzenberger	Instructor.....	1,600.00
Willard V. Grove	Instructor.....	1,600.00

*Virginia Harrison	Assistant.....	1,100.00
*Garrett B. Ehrhardt	Student Assistant.....	144.09
*Thomas O. Kuivinen	Student Assistant.....	300.00
John F. Hunt	Student Assistant.....	300.00
Kenneth Ehrhardt	Student Assistant.....	300.00
*Jack Day	Student Assistant.....	100.00
*Edward F. Tuta	Student Assistant.....	188.50
*LeRoy S. Stanley	Student Assistant.....	93.61
*Donald C. French	Student Assistant.....	77.00
*Harold R. Miller	Student Assistant.....	93.32

INDUSTRIAL ENGINEERING

John Younger	Professor.....	6,000.00
W. A. Knight	Professor.....	3,000.00
C. M. Beem	Instructor.....	1,800.00
Rudolph Schneider	Instructor.....	1,800.00
O. D. Rickly	Instructor.....	2,150.00
U. W. Denman	Instructor.....	1,800.00
J. A. Foust	Instructor.....	1,700.00
Harold Wright	Instructor.....	1,750.00
*Edward Janning	Instructor.....	966.33
Ora L. Justice	Ass'tant.....	1,260.00
John F. Cooke	Laborer.....	960.00

MATHEMATICS

H. W. Kuhn	Professor.....	4,250.00
*R. D. Bohannon	Professor.....	333.33
Henry Blumberg	Professor.....	4,000.00
S. E. Rasor	Professor.....	4,000.00
C. L. Arnold	Professor.....	3,250.00
C. C. Morris	Professor.....	3,250.00
James H. Weaver	Professor.....	3,000.00
G. W. McCoard	Professor.....	2,000.00
C. C. MacDuffee	Assistant Professor.....	3,500.00
*Raymond L. Wilder	Assistant Professor.....	1,416.66
Charles T. Bumer	Assistant Professor.....	3,000.00
Grace Bareis	Assistant Professor.....	2,250.00
Harry Beatty	Assistant Professor.....	2,250.00
Vaughn B. Caris	Assistant Professor.....	2,250.00
Hortense Rickard	Assistant Professor.....	2,000.00
Margaret Jones	Instructor.....	1,800.00
Clarice Hobensack	Instructor.....	1,800.00
Hugh G. Harp	Graduate Assistant.....	833.00
Henry K. Holt	Graduate Assistant.....	833.00
Edward J. Finan	Graduate Assistant.....	1,000.00
Vernon L. Nunn	Assistant.....	1,000.00
Elizabeth P. Roberts	Graduate Assistant.....	500.00

MECHANICAL ENGINEERING

William T. Magruder	Professor.....	5,000.00
*F. W. Marquis	Professor.....	2,000.00
C. A. Norman	Professor.....	3,800.00
Horace Judd	Professor.....	3,415.00
A. I. Brown	Assistant Professor.....	3,300.00
Paul Bucher	Assistant Professor.....	2,770.00
Karl W. Stinson	Assistant Professor.....	2,300.00
H. M. Jacklin	Assistant Professor.....	2,540.00
George N. Moffat	Instructor.....	2,410.00
Samuel R. Beitler	Instructor.....	1,880.00
C. P. Roberts	Instructor.....	1,880.00
*John O. Harshman	Instructor.....	350.00
R. L. Pratt	Stationary Engineer.....	1,800.00

Robert T. Simpson	Machinist.....	1,800.00
James O. Kennedy	Assistant.....	1,250.00
John P. Kramer	Laborer.....	1,150.00
Richard Alford	Helper.....	1,000.00
*Lee W. Garver	Student Assistant.....	270.00
*Paul A. Harlamert	Student Assistant.....	123.00
*Oscar W. Loudenslayer	Student Assistant.....	114.00
*Harold P. Miller	Student Assistant.....	93.00
*Marcus E. Shoup	Student Assistant.....	117.00
*Carl A. Stickel	Student Assistant.....	36.00
*Harold M. Wade	Student Assistant.....	105.00
*Ervin H. Wright	Student Assistant.....	90.00
*William A. Meiter	Student Assistant.....	36.00
*Louis A. Roebuck	Student Assistant.....	48.00

MECHANICS

James E. Boyd	Professor.....	4,750.00
E. F. Coddington	Professor (part salary).....	1,500.00
Percy W. Ott	Assistant Professor.....	3,250.00
*Samuel B. Folk	Assistant Professor.....	1,875.00

METALLURGY

D. J. Demorest	Professor.....	4,500.00
W. A. Mueller	Professor.....	3,000.00
J. O. Lord	Assistant Professor.....	2,300.00
William W. Black	Student Assistant.....	270.00
*Arthur P. Watts	Student Assistant.....	180.00
*Frank B. Streine	Student Assistant.....	90.00

MINE ENGINEERING

H. E. Nold	Professor.....	3,600.00
Edward V. O'Rourke	Assistant Professor.....	2,500.00
*Frank A. Ray	Consulting Director.....	250.00

MINERALOGY

W. J. McCaughey	Professor.....	4,000.00
Arthur M. Brant	Instructor.....	2,025.00
*Gerald L. Lee	Student Assistant.....	240.00

PHYSICS

A. D. Cole	Professor.....	5,000.00
Alpheus Smith	Professor.....	4,500.00
F. C. Blake	Professor.....	4,000.00
R. F. Earhart	Professor.....	3,750.00
H. G. Heil	Assistant Professor.....	3,000.00
Alva W. Smith	Assistant Professor.....	2,800.00
*D. A. Woodbury	Instructor.....	625.00
Rufus H. Snyder	Instructor.....	2,000.00
J. W. Sappenfield	Instructor.....	1,800.00
Louis M. Heil	Assistant.....	900.00
Joy Dillinger	Assistant.....	900.00
Francis L. Meara	Assistant.....	1,300.00
Keith B. Eller	Assistant.....	900.00
Morris G. Van Voorhis	Graduate Assistant.....	500.00
Willard E. Singer	Graduate Assistant.....	500.00
Fred J. Brooks	Assistant.....	1,800.00
J. B. Sparrow	Assistant.....	1,400.00
John R. Patty	Assistant.....	500.00
Paul J. Huber	Graduate Assistant.....	500.00
Frederick W. Gray, Jr.	Assistant.....	800.00

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*Harold C. Darling	Student Assistant.....	110.00
*Leroy Davis	Student Assistant.....	222.22
*Charles B. Green	Student Assistant.....	139.00

COLLEGE OF LAW

*John J. Adams	Dean.....	1,000.00
Alonzo H. Tuttle	Acting Dean.....	6,000.00
Clarence D. Lavlin	Professor.....	5,750.00
*Lewis M. Simes	Professor.....	1,250.00
Robert E. Mathews	Professor.....	4,875.00
Norman D. Lattin	Assistant Professor.....	4,000.00
*Robert M. Hunter	Assistant Professor.....	4,000.00
*William H. Rose	Assistant Professor.....	2,250.00
Myrtle Albaugh	Stenographer.....	1,080.00
*Edgar L. Weinland	Lecturer.....	1,500.00

COLLEGE OF MEDICINE

E. F. McCampbell	Dean.....	6,000.00
Arthur J. Linn	Secretary to the Dean.....	1,800.00
*Gertrude Zorn	Clerk	720.00
Gladys Johnston	Stenographer.....	1,200.00
Carl P. Effler	Technical Assistant.....	2,300.00
Margaret Rose	Technical Assistant.....	1,500.00
Katherine Worth	Technical Assistant.....	960.00
Elizabeth Flautt	Stenographer.....	895.48
*Lela Evans	Clerk.....	240.00

ANATOMY

F. L. Landacre	Professor.....	5,500.00
Edward C. Buck	Professor.....	3,000.00
Rollo C. Baker	Assistant Professor.....	3,250.00
R. A. Knouff	Assistant Professor.....	3,250.00
Clarence I. Britt	Instructor.....	1,612.50
Dorothy Searles	Instructor.....	1,500.00
Thomas Evans	Technician.....	1,100.00
*Clarence C. Myers	Student Assistant.....	100.00
Francis Bair	Student Assistant.....	300.00
Jacob Rosofsky	Student Assistant.....	300.00
George W. Petznick	Student Assistant.....	300.00
*Lewis B. Stephan	Student Assistant.....	200.00
*W. Z. Kling	Student Assistant.....	500.00
*George B. Watson	Student Assistant.....	500.00

BACTERIOLOGY

Charles B. Morrey	Professor.....	5,000.00
William A. Starin	Professor.....	3,750.00
Fred Speer	Assistant Professor.....	2,500.00
R. F. Jukes	Instructor.....	1,600.00
John G. McCrimmon	Instructor.....	1,500.00
George W. Bond	Instructor.....	1,500.00
Joseph A. Taylor	Laboratory Assistant.....	1,100.00

MEDICINE

J. H. J. Upham	Professor.....	2,000.00
S. A. Hatfield	Assistant Professor and Superintendent of Hospital..	4,200.00
E. J. Gordon	Professor and Director of Dispensaries.....	2,500.00
Joseph W. Leist	Assistant Professor.....	1,500.00
G. I. Nelson	Instructor.....	2,683.33
*John D. Dunham	Professor.....	250.00

*Elmer G. Horton	Professor.....	500.00
*Jacob J. Coons	Professor.....	300.00
*E. H. Baxter	Instructor.....	300.00
*Carl A. Hyer	Assistant.....	150.00

OBSTETRICS

Andrews Rogers	Professor.....	1,500.00
*Herman Koerper	Assistant Professor.....	700.00
Francis W. Davis	Assistant.....	1,500.00
*Thomas A. Vogel	Assistant.....	400.00
*Austin H. Seeds	Assistant.....	200.00
*Palmer L. Cordray	Assistant.....	150.00

OPHTHALMOLOGY

*Hugh Beatty	Assistant Professor.....	500.00
*T. Rees Williams	Instructor.....	600.00
*John B. Alcorn	Instructor.....	400.00
*Albert D. Frost	Instructor.....	375.00

PATHOLOGY

Ernest Scott	Professor.....	4,750.00
Carl L. Spohr	Professor.....	3,750.00
Learn H. Van Buskirk	Instructor.....	1,800.00
Phillip J. Reel	Instructor.....	1,700.00
Edith Miller	Instructor.....	1,500.00
*Robert A. Moore	Instructor.....	1,125.00
Mortimer Banks	Technical Assistant.....	1,200.00
Clinton Bryant	Technical Assistant.....	1,200.00
Edwin S. Shone	Assistant.....	200.00
Frederick Fri	Student Assistant.....	300.00
*Robert A. Moore	Instructor.....	300.00

PHYSIOLOGY

*Roy G. Hoskins	Professor.....	3,674.00
A. M. Bleile	Professor.....	3,875.00
Ramond J. Seymour	Assistant Professor.....	3,250.00
Clayton McPeck	Assistant Professor.....	3,000.00
Edwin P. Durrant	Assistant Professor.....	2,400.00
Fred A. Hitchcock	Instructor.....	2,350.00
Milton O. Lee	Instructor.....	2,200.00
R. R. Durant	Instructor.....	1,590.00
*Helen M. Lee	Technical Assistant.....	1,100.00
Marvin Gans	Assistant.....	350.00
*Mildred Stouffer	Technical Assistant.....	100.00

PHYSIOLOGICAL CHEMISTRY

Clayton S. Smith	Professor.....	4,500.00
John B. Brown	Assistant Professor.....	3,000.00
Helen L. Wikoff	Instructor.....	2,400.00
Roland Cox	Technical Assistant.....	1,200.00
*Roscell T. Preston	Technical Assistant.....	986.55
Albert L. Rawlins	Graduate Assistant.....	500.00
Jacob L. Tanner	Graduate Assistant.....	500.00

PUBLIC HEALTH

Emery R. Hayhurst	Professor.....	3,250.00
*Norma Selbert	Assistant Professor.....	687.50
James S. Wilson	Assistant Professor.....	2,500.00
*Catherine Forrest	Assistant Professor.....	2,062.50

SURGERY AND GYNECOLOGY

Verne A. Dodd	Professor.....	4,000.00
John W. Means	Assistant Professor.....	3,000.00
Leslie L. Bigelow	Assistant Professor.....	2,250.00
Paul H. Charlton	Instructor.....	2,400.00
Hugh G. Means	Assistant Professor.....	900.00
*Luke V. Zartman	Assistant Professor.....	700.00
*Edwin A. Hamilton	Assistant Professor.....	500.00
*A. M. Steinfield	Ass'tant Professor.....	300.00
*William N. Taylor	Instructor.....	300.00
*George H. Shawaker	Instructor.....	300.00
*Frank F. Schmidt	Assistant.....	100.00
Faye Irvin	Technician.....	840.00

UNIVERSITY HOSPITAL

Charles E. Findlay	Assistant to Superintendent of Hospital.....	2,400.00
Louise Tuttle	Bookkeeper (Stenographer).....	1,200.00
*Elsie K. Lyons	Historian (Clerk).....	900.00
Alice Taylor	Clerk.....	960.00
Emma F. Neff	Telephone Operator.....	960.00
Doris Roach	Telephone Operator.....	960.00
John V. Horst	Resident Physician.....	1,200.00
Lowell K. Ruff	Pharmacist.....	2,000.00
Lucy V. Ailer	Superintendent of Nurses.....	1,800.00
Ruth K. Snowden	Assistant Superintendent of Nurses.....	1,700.00
Dorothy Newton	Dietitian.....	1,500.00
Jean Anderson	Chief Nurse Operating Room.....	1,500.00
*Edith Westervelt	Night Supervisor.....	1,000.00
Julia Browning	Supervising Nurse.....	1,200.00
Ruth DeWolfe	Supervising Nurse.....	1,200.00
*Helen Z. Ryan	Supervising Nurse.....	116.00
Marjorie Swift	Supervising Nurse.....	1,175.00
*Geneva Bright	Supervising Nurse.....	150.00
Emily Stockford	Supervising Nurse.....	1,200.00
Olga Atwood	Supervising Nurse.....	1,200.00
Freda Schacht	Supervising Nurse.....	1,200.00
*Vera Hall	Supervising Nurse.....	300.00
Ruth Gray	Supervising Nurse.....	1,200.00
Ila Ward	Supervising Nurse.....	1,200.00
Pauline Townsend	Supervising Nurse.....	1,200.00
J. H. Johnson	Chef.....	1,800.00
Clara Dennis	Assistant Cook.....	1,080.00
Julia French	Assistant Cook.....	780.00
Fannie Moore	Assistant Cook.....	720.00
*Ella B. Cato	Assistant Cook.....	490.00
*Emma Wright	Assistant Cook.....	200.00
*Viola Bates	Night Cook.....	200.00
Belle Carter	Diet Kitchen Helper.....	600.00
Doll Carter	Diet Kitchen Helper.....	600.00
*Martha Morris	Diet Kitchen Helper.....	550.00
Helen Thomas	Diet Kitchen Helper.....	600.00
Christine Hamilton	Diet Kitchen Helper.....	600.00
*Ottie Tinsley	Dishwasher.....	400.00
*Lugina Prince	Dishwasher.....	200.00
George Griffin	Dishwasher.....	720.00
Nora Massie	Seamstress.....	780.00
*Retta McClellan	Assistant Seamstress.....	106.67
Lillie Willis	Housekeeper.....	600.00
John Long	Orderly.....	1,140.00
Ernest Long	Janitor.....	1,140.00
Oscar Raver	Janitor.....	1,080.00
Ben Thomas	Janitor.....	1,080.00

Johnnie Wright	Janitor.....	1,080.00
Charlotte Thum	Janitress.....	750.00
Elizabeth Rourke	Janitress.....	750.00
*Martha Davis	Janitress.....	165.67
Mary Hamilton	Janitress.....	600.00
*Ella Griffin	Janitress.....	504.84
Roberta Philbrook	Supervising Nurse.....	1,200.00
*William L. Denney	Orderly (Student).....	39.52
*Samuel E. Flook	Orderly (Student).....	125.00
George W. Butz	Orderly (Student).....	300.00
*Agnes Carney	Janitress.....	324.19
*John Jones	Dishwasher.....	118.06
R. J. Mill	Assistant Pharmacist.....	600.00
Wilda Hockenberry	Assistant Dietitian.....	1,400.00
*Charles F. Smoot	Interne.....	50.00
*Laverne Brighton	Supervising Nurse.....	1,283.32
*Livingston Wright	Dishwasher.....	598.00
*Ruth Berger	Supervising Nurse.....	983.33
*Calvin F. Jackson	Orderly (Student).....	200.00
*Fanny Thum	Seamstress.....	422.58
*Vonnie Herndon	Janitress.....	468.33
*Katherine Lacey	Assistant Cook.....	400.00
*Willie Lee	Dishwasher.....	150.00
*Hattie Colley	Night Cook.....	50.00
*Clarice Cassill	Night Supervisor.....	854.84
*Gladys P. Bange	Night Cook.....	100.00
*John Y. Bevan	Orderly (Student).....	175.00
*Waldo C. Suter	Interne.....	200.00
*Clement V. Wolfe	Interne.....	100.00
*John W. Rogers	Interne.....	200.00
*Andrew J. Nemecek	Interne.....	200.00
*Garnett E. Neff	Interne.....	200.00
*Charles J. Griebeling	Interne.....	200.00
*Ray V. Morledge	Interne.....	200.00
*Ralph A. Laughlin	Interne.....	100.00
*Kathryn Bricker	Janitress.....	137.42
*Lugina Prince	Dishwasher.....	150.00
*Marie Russell	Cook.....	60.00
*John Ril	Cook.....	250.00
*Bessie Shank	Cook.....	240.00
*Ethel M. Booker	Dishwasher.....	170.97
*LeEvelyn Gillam	Stenographer.....	300.00
*Martha Davis	Janitress.....	140.00
*Clyde W. Dawson	Orderly (Student).....	66.66
*Blanche Burket	Night Supervisor.....	200.00
*Pearl Simmons	Dishwasher.....	50.00
*Sarah Waddie	Janitress.....	45.16
*Lula May Wayt	Janitress.....	50.00
*Cora Harris	Diet Kitchen Helper.....	50.00

UNIVERSITY HOSPITAL—NURSES

*Rhea Horner	Student Nurse.....	12.50
*Clarice Cassell	Student Nurse.....	18.75
*Ada Galloway	Student Nurse.....	18.75
*Elsie Mitchell	Student Nurse.....	25.00
*Gertrude Nygren	Student Nurse.....	31.25
*Florence Samson	Student Nurse.....	37.50
*Thelma Wright	Student Nurse.....	25.00
*Dorothy Hyle	Student Nurse.....	43.75
*Marion Hyle	Student Nurse.....	31.25
*Margaret Steinhoff	Student Nurse.....	43.75
*Alice Anderson	Student Nurse.....	56.25
Nina Bargdill	Student Nurse.....	75.00

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Sarah Bell	Student Nurse.....	75.00
Anne Besse	Student Nurse.....	75.00
Ruth Decker	Student Nurse.....	75.00
Pauline Evans	Student Nurse.....	75.00
Grace Gleckler	Student Nurse.....	75.00
Mildred Jester	Student Nurse.....	75.00
Josephine Roberts	Student Nurse.....	75.00
*Florence Wardell	Student Nurse.....	62.50
Serena Clark	Student Nurse.....	75.00
Bernice Ewing	Student Nurse.....	75.00
*Edith Myers	Student Nurse.....	6.25
*Eva Weaver	Student Nurse.....	68.75
Estelle Gundrum	Student Nurse.....	75.00
Lessie Jones	Student Nurse.....	75.00
Frances Stuckey	Student Nurse.....	75.00
*Doris Baker	Student Nurse.....	37.50
*Mary Barber	Student Nurse.....	43.75
*Edna Blaney	Student Nurse.....	18.75
Marie Blaney	Student Nurse.....	75.00
Mildred Brenner	Student Nurse.....	75.00
Marie Connell	Student Nurse.....	75.00
*Mildred Douglas	Student Nurse.....	56.25
Helen Fisher	Student Nurse.....	75.00
Hettie Griffith	Student Nurse.....	75.00
Mae Hamilton	Student Nurse.....	75.00
Ruth Jones	Student Nurse.....	75.00
Alice McConkey	Student Nurse.....	75.00
Edna Moore	Student Nurse.....	75.00
Inez Morris	Student Nurse.....	75.00
Myrtle Ringer	Student Nurse.....	75.00
Ruth Roberts	Student Nurse.....	75.00
*Harriet Sanders	Student Nurse.....	37.50
Hermagine Seidel	Student Nurse.....	75.00
Leah Shelt	Student Nurse.....	75.00
Cora Strom	Student Nurse.....	75.00
Gail Washburn	Student Nurse.....	75.00
*Catherine Wheeler	Student Nurse.....	68.75
Anita Williams	Student Nurse.....	75.00
*Beulah Albaugh	Student Nurse.....	43.75
*Cecile Stahl	Student Nurse.....	68.75
*Hilda Miller	Student Nurse.....	68.75
*Irene Shuttleworth	Student Nurse.....	68.75
*Vesta Mae Taylor	Student Nurse.....	68.75
*Alvira R. Williams	Student Nurse.....	68.75
*Rena White	Student Nurse.....	56.25
*Velma Johnson	Student Nurse.....	56.25
*Dorothy Pfisterer	Student Nurse.....	31.25
*Martha T. Balthaser	Student Nurse.....	31.25
*Julia Bunn	Student Nurse.....	31.25
*Ruth Sarah Dolby	Student Nurse.....	31.25
*Allene Ellis	Student Nurse.....	31.25
*Dorothy Fankhauser	Student Nurse.....	31.25
*Lucile V. Fenton	Student Nurse.....	31.25
*Dorothy Fiester	Student Nurse.....	18.75
*Iobelle Herbert	Student Nurse.....	31.25
*Margaret Hill	Student Nurse.....	31.25
*Hazel Jones	Student Nurse.....	31.25
*Julia Lang	Student Nurse.....	31.25
*Edna Moorehead	Student Nurse.....	31.25
*Dolores Novatney	Student Nurse.....	18.75
*Beatrice Averfield	Student Nurse.....	25.00
*Helen Severns	Student Nurse.....	31.25
*Belle Shelton	Student Nurse.....	31.25

THE OHIO STATE UNIVERSITY

*Frances Spalt	Student Nurse.....	31.25
*Gladys Steenrod	Student Nurse.....	31.25
*Bessie Vining	Student Nurse.....	25.00
*Della Webb	Student Nurse.....	31.25
*Wilhelmine Wordelman	Student Nurse.....	31.25
*Alma Young	Student Nurse.....	31.25
*Virginia Sharrock	Student Nurse.....	12.50

COLLEGE OF PHARMACY

Clair A. Dye	Dean.....	5,000.00
Clarence M. Brown	Assistant Professor.....	3,000.00
William S. Stevens	Instructor.....	2,200.00
Charles L. Williams	Instructor.....	1,950.00
William E. Keyser	Instructor.....	1,400.00
Leslie W. Reese	Student Assistant.....	200.00
*John A. Bell	Student Assistant.....	66.00
Alvin G. Burderer	Student Assistant.....	200.00
Kirtly W. Ervin	Student Assistant.....	200.00
*Frederick L. Geiler	Student Assistant.....	134.00

COLLEGE OF VETERINARY MEDICINE

David S. White	Dean.....	6,250.00
Oscar V. Brumley	Professor.....	5,000.00
Leonard W. Goss	Professor.....	5,000.00
James D. Grossman	Professor.....	3,500.00
James H. Snook	Professor.....	3,500.00
John N. Shoemaker	Assistant Professor.....	2,900.00
Walter R. Hobbs	Assistant Professor.....	2,900.00
R. E. Rebrassier	Assistant Professor.....	2,700.00
Derwin W. Ashcraft	Instructor.....	2,400.00
*Ralph A. Hendershott	Instructor.....	340.06
William H. Walker	Groom.....	1,260.00
*W. C. Weil	Groom.....	1,000.00
E. L. Clements	Technician.....	1,200.00
Marie Combs	Secretary to the Dean.....	1,080.00
Mabel Spencer	Clerk.....	960.00
*John H. Rietz	Instructor.....	466.67
*Ernest M. Dickinson	Student Assistant.....	450.00
*Robert Millington	Groom.....	200.00

GRADUATE SCHOOL

William McPherson	Dean.....	6,250.00
Alice A. Moran	Secretary to the Dean.....	1,750.00
Ruth Carson	Fellow.....	500.00
F. H. Conners	Fellow.....	500.00
Mary E. Conrad	Fellow.....	500.00
Carl M. Frasure	Fellow.....	500.00
Robert F. Heald	Fellow.....	500.00
Edgar A. Holt	Fellow.....	500.00
Preston M. Harris	Fellow.....	500.00
Frieda A. Kiefer	Fellow.....	500.00
Karl C. Pratt	Fellow.....	500.00
Paul M. Swingle	Fellow.....	500.00
Earl D. Wilson	Fellow.....	500.00
Charles L. Wu	Fellow.....	500.00
Margaret Barger	Scholar.....	300.00
Edwin J. Bognar	Scholar.....	300.00
Russell V. Giffin	Scholar.....	300.00
Harriet P. Lattin	Scholar.....	300.00
Gertrude Lawrence	Scholar.....	300.00
Kai Ching Lu	Scholar.....	300.00

Agnes M. Marshall	Scholar.....	300.00
*Donald C. Miller	Scholar.....	100.00
Esther M. Mitchell	Scholar.....	300.00
Pedro T. Orata	Scholar.....	300.00
J. Edwin Hutehman	Scholar.....	300.00
Joseph J. Spengler	Scholar.....	300.00
Helen L. Mansfield	Scholar.....	300.00
*Roger C. Quick	Fellow.....	320.84

COMMENCEMENT

Karl H. Hoenig	Director of Music.....	900.00
Earl Hopkins	Director of Orchestra.....	300.00

LIBRARY

Olive Jones	Librarian.....	3,000.00
Maud D. Jeffrey	Reference Librarian.....	2,700.00
Gertrude Kellicott	Accession Librarian.....	2,700.00
Bertha Schneider	Catalogue Librarian.....	2,700.00
*Dorothy I. Higgins	Cataloger.....	749.50
Maude E. Avery	Cataloger.....	2,000.00
Adah V. Morris	Cataloger.....	1,900.00
Edna E. Davis	Library Assistant.....	2,250.00
Alice D. McKee	Library Assistant.....	2,000.00
Anna Green	Library Assistant.....	2,000.00
Rita M. Buxton	Library Assistant.....	1,600.00
Gladys Capell	Library Assistant.....	1,500.00
Mildred V. Watson	Library Assistant.....	1,500.00
Susan Marksbury	Library Assistant.....	1,400.00
Ellen V. Michael	Library Assistant.....	1,380.00
Jane Kintner	Library Assistant.....	1,300.00
Ethel M. Miller	Library Assistant.....	1,300.00
Rosanne Gilmore	Library Assistant.....	1,100.00
Miriam Beckes	Library Assistant.....	1,080.00
Adah P. Smith	Library Assistant.....	1,080.00
Marie Hopkins	Library Assistant.....	1,080.00
Lillian Rose	Cataloger.....	1,500.00
*Alma L. Utter	Library Assistant.....	765.00
*Helen Hartley	Library Assistant.....	900.00
*Marjorie I. Clark	Library Assistant.....	850.00
Clara Werther	Library Assistant.....	1,076.66
Karl D. Day	Library Assistant.....	600.00
Charles E. Moul	Library Assistant.....	600.00
Max Johnston	Library Assistant.....	740.00
*Phyllis Hedges	Library Assistant.....	60.00
Clifford Hoover	Library Assistant.....	360.00
Thelma Walley	Library Assistant.....	360.00
*Florence Reese	Library Assistant.....	240.00
Pauline Lehman	Library Assistant.....	360.00
*I'Lee Cornell	Library Assistant.....	90.00
Evelyn Hensel	Library Assistant.....	360.00
*Elmer Whitenack	Library Assistant.....	60.00
Lillian Michaelis	Library Assistant.....	540.00
*Robert Bruce	Library Assistant.....	60.00
*Carter Kissell	Library Assistant.....	180.00
*Brandon G. Schnorf	Library Assistant.....	255.00
*James B. Danaher	Library Assistant.....	285.00
*Winston W. Hill	Library Assistant.....	285.00
*Joy L. Wood	Library Assistant.....	90.00
*Mary Stewart	Library Assistant.....	450.00
*Joseph Day	Library Assistant.....	270.00
*William Schmink	Library Assistant.....	270.00
*William W. Boggess	Library Assistant.....	270.00
*George M. Price	Library Assistant.....	90.00

*Frank M. Setzler	Library Assistant.....	270.00
*John J. Snyder	Library Assistant.....	270.00
W. C. George	Cheek Room Attendant.....	1,440.00
*Ralph Stimson	Library Assistant.....	200.00
*Cora L. Van Keuren	Library Assistant.....	300.00
*Dorothy White	Library Assistant.....	182.00
*Joy Lillian Wood	Library Assistant.....	180.00
*Katherine Wade	Library Assistant.....	180.00
*Joseph Day	Library Assistant.....	180.00
*Verne C. Smith	Library Assistant.....	60.00
Kathryn P. Holt	Library Assistant.....	1,080.00
*Grace L. Giffin	Cataloger.....	1,500.00
*Mrs. Donald A. Wilbur	Library Assistant.....	1,271.11
*Ena Oerth	Cataloger.....	1,833.33
*Minnie K. Brown	Cataloger.....	1,500.00
*Margaret Y. Green	Cataloger.....	1,112.22
*Mary T. Hugentugler	Library Assistant.....	60.00
*Helen Way	Library Assistant.....	762.67
*Dale D. Rapp	Library Assistant.....	330.00
*John J. Schmink	Library Assistant.....	210.00
*John E. Roberts	Library Assistant.....	270.00
*Marguerite Andrade	Library Assistant.....	810.00
*Willie W. Watkins	Library Assistant.....	870.00
*Katherine Pennell	Library Assistant.....	450.00
*Charles G. Core	Library Assistant.....	163.55
*Arthur T. Martin	Library Assistant.....	135.00
*Gertrude W. Nesbitt	Library Assistant.....	450.00
*Marian G. Ferguson	Library Assistant.....	150.00
*Mildred M. Rasor	Library Assistant.....	120.00
*Harold A. James	Library Assistant.....	105.00
*Irvin H. Sauerman	Library Assistant.....	90.00
*Loa Evelyn Bailey	Library Assistant.....	500.00
*Helen Ewing	Library Assistant.....	213.00
*Eleanor Torbert	Library Assistant.....	170.00
*Elizabeth C. Day	Library Assistant.....	90.00
*Walter Burnham	Library Assistant.....	60.00
*Vivian Lepard	Library Assistant.....	30.00

MILITARY SCIENCE

A. M. Shipp	Commandant.....	500.00
John N. Hauser	Assistant Professor.....	250.00
Paul A. Barry	Assistant Professor.....	250.00
Lewis B. Hershey	Assistant Professor.....	250.00
Chester A. Horne	Assistant Professor.....	250.00
*Chester H. Smith	Assistant Professor.....	150.00
Alvin C. Miller	Assistant Professor.....	250.00
Harrison McAlpin	Assistant Professor.....	250.00
Harold Haney	Assistant Professor.....	250.00
Harry D. Furey	Assistant Professor.....	250.00
Carl G. Holmes	Assistant Professor.....	250.00
Earl F. Long	Assistant Professor.....	250.00
Harvey H. Smith	Assistant Professor.....	250.00
John J. Atkinson	Assistant Professor.....	250.00
John Hopkins	Assistant Professor.....	250.00
Keith K. Jones	Assistant Professor.....	250.00
Levie W. Foy	Assistant Professor.....	250.00
Joseph C. Odell	Assistant Professor.....	250.00
Neal A. Harper	Assistant Professor.....	250.00
John P. Eckert	Assistant Professor.....	250.00
John E. Higgins	Instructor.....	160.00
*Jacqueline Ullmer	Stenographer.....	988.00
Clara Offenbacher	Stenographer.....	273.55
*Mildred L. Gilbert	Stenographer.....	

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John Williams	Assistant.....	250.00
Bud Blackburn	Janitor.....	180.00
Gustav Bruder	Band Leader.....	500.00
	Band Volunteers.....	500.00
	Band Lieutenant.....	40.00
	Cadet Officers.....	4,900.00
*Elsie Hoover	Stenographer.....	781.33
Don P. Branson	Assistant Professor.....	250.00
Norman Minus	Assistant Professor.....	250.00
*Marguerite F. Sines	Stenographer.....	686.45
*William H. Mack	Assistant Professor.....	87.50

PHYSICAL EDUCATION—MEN

L. W. St. John	Professor.....	5,000.00
J. H. Nichols	Professor.....	5,500.00
J. W. Wilce	Professor.....	2,500.00
F. R. Castleman	Professor.....	1,500.00
Samuel H. Cobb	Assistant Professor.....	3,200.00
George M. Trautman	Assistant Professor.....	1,500.00
Bernard F. Mooney	Instructor.....	2,000.00
Leo G. Staley	Instructor.....	1,800.00
*H. S. Wood	Instructor.....	1,125.00
*Darwin Hindman	Instructor (part time).....	750.00
*H. G. Olsen	Assistant Professor.....	500.00
V. R. Billingsley	Secretary to the Department (Instructor).....	2,100.00
James E. Pollard	Director News Bureau (Instructor).....	2,000.00
Henry D. Taylor	Alumni Recorder (Instructor).....	1,500.00
Gladys M. Pryor	Stenographer.....	1,020.00
Michael Pepe	Student Assistant.....	300.00
Willard D. Altman	Student Assistant.....	300.00
Walter Caldwell	Student Assistant.....	300.00
D. H. Krueger	Student Assistant.....	300.00
*Henry Frederick	Student Assistant.....	200.00
*Dudley P. Glick	Student Assistant.....	50.00
*Manuel E. Kuechle	Student Assistant.....	75.00

PHYSICAL EDUCATION—WOMEN

Lydia Clark	Professor.....	4,000.00
*Gertrude F. Jones	Professor.....	875.00
Gladys Palmer	Assistant Professor.....	2,700.00
Katherine Hersey	Assistant Professor.....	2,408.32
Esther Gilman	Instructor.....	2,350.00
Dorothy Sumption	Instructor.....	2,350.00
Margaret Cheney	Instructor.....	1,925.00
*Ann Elizabeth Hall	Instructor.....	1,350.00
*Lenore K. Alway	Instructor.....	1,350.00
*Alma Volp	Pianist.....	900.00
*Helen Saum	Student Assistant.....	500.00
Candace M. Haigler	Secretary to the Department (Stenographer).....	1,200.00
Margaret Ernst	Typist.....	960.00
Louise Ortman	Maid.....	840.00
Nellie Robbins	Maid.....	720.00
*Edna Munro	Instructor.....	400.00
*Elinor M. Schroeder	Instructor.....	400.00
*Alma Volp	Pianist.....	150.00
*Marian Johnson	Instructor.....	550.00
*Ruth Weythman	Instructor.....	450.00
*Helen B. Schlemen	Instructor.....	1,350.00
Ruth White	Graduate Assistant.....	500.00
*Shirley Armstrong	Medical Advisor.....	3,000.00
*Edith Traftzer	Student Assistant.....	300.00
*Harriet Stephen	Student Assistant.....	83.33
*Mrs. Thomas Riddle	Matron.....	312.50

THE OHIO STATE UNIVERSITY

PRESIDENT'S OFFICE

George W. Rightmire	President.....	10,000.00
William Oxley Thompson	President Emeritus.....	10,000.00
George W. Eckelberry	Assistant to the President.....	5,250.00
Katherine A. Vogel	Executive Clerk.....	2,150.00
*Margaret Morrison Fee	Stenographer.....	720.00
Euith M. Auch	Auditor Student Organizations.....	850.00
Miriam Long	Stenographer.....	1,320.00
*Violet Brooks	Stenographer (Student).....	407.66
*Hazel Thomas	Stenographer.....	840.00
*John E. Pryor	Statistician.....	951.61

BUSINESS MANAGER'S OFFICE

Carl E. Steeb	Secretary of the Board of Trustees and Business Manager.....	6,000.00
Ina D. Shirk	Chief Clerk.....	1,620.00
R. M. Royer	Purchasing Agent.....	4,000.00
Mary E. Duffy	Stenographer.....	1,800.00
*Helena Sands	Typist.....	100.00
Mildred Scott	Clerk.....	1,200.00
Charles A. Kuntz	Comptroller.....	4,500.00
*Katharine C. Taylor	Office Assistant.....	1,100.00
Margaret Pearce	Typist.....	1,020.00
Floris D. Hane	Cashier.....	2,100.00
Mary Kraus	Auditor.....	2,000.00
Anna O'Rourke	Stenographer.....	1,320.00
Gladys E. Steele	Stenographer.....	1,020.00
Anne Rawson	Clerk.....	960.00
Florence Naile	Bookkeeper.....	2,000.00
*Lulu J. Yonally	Bookkeeper.....	220.00
Catherine Cottingham	Clerk.....	1,320.00
Howard L. Hamilton	Clerk.....	1,800.00
*Loretta Harsh	Typist.....	296.77
*Ruth Waters	Assistant Cashier.....	230.00
*E. Lucille Keep	Typist.....	880.00
*Ardis North	Typist.....	1,100.00
*Martha Beggs	Bookkeeper.....	843.00
*Sara J. Ryan	Clerk.....	80.00
*Mildred DePue	Stenographer.....	150.00

REGISTRAR'S OFFICE

Edith D. Cockins	Registrar, University Editor, and Secretary of Faculty	4,250.00
Helen Clarke	Assistant Registrar.....	2,750.00
Clara Miller	Assistant Editor.....	2,200.00
Ethyl Woodbury	Chief Schedule Clerk.....	2,000.00
Bonnie Woodbury	Chief Transcript Clerk.....	1,600.00
*Virginia Michel	Recorder.....	125.00
Ruth Agler	Assistant to Registrar.....	1,480.00
Florence Shride	Assistant to Registrar.....	1,360.00
Marguerite Fox	Assistant to Registrar.....	1,200.00
*Mrs. E. L. Udry	Assistant to Registrar.....	100.00
Florence Donnenworth	Assistant to Registrar.....	1,200.00
Floy Core	Assistant to Registrar.....	1,120.00
Esther Head	Assistant to Registrar.....	1,120.00
*Margaret Packard	Assistant to Registrar.....	180.00
Hulda Stroedter	Assistant to Registrar.....	1,080.00
Josephine Richardson	Assistant to Registrar.....	1,080.00
Marcella Rehl	Assistant to Registrar.....	1,080.00
*Elizabeth Allen	Assistant to Registrar.....	85.00
Jean Flautz	Assistant to Registrar.....	1,020.00
*Lucile Capelle	Assistant to Registrar.....	170.00
*Frances Rogers	Assistant to Registrar.....	255.00

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*Mildred Orwig	Assistant to Registrar.....	1,000.00
*Esther Wieche	Assistant to Registrar.....	808.87
*Virginia Hamer	Assistant to Registrar.....	78.15
*Marjorie Matchette	Assistant to Registrar.....	850.00
*Dorothy R. Buckley	Assistant to Registrar.....	807.50
*Margaret E. Bazler	Assistant to Registrar.....	765.00
*Dorothy Sinkey	Assistant to Registrar.....	595.00
*Marguerite Buchanan	Assistant to Registrar.....	85.00

ENTRANCE BOARD

B. L. Stradley	University Examiner and Assistant Professor of Education.....	4,050.00
Mary E. Morris	Assistant University Examiner.....	1,800.00
Dorothy Offenbacher	Stenographer.....	960.00
Leona Freshwater	Stenographer.....	960.00

DEAN OF WOMEN'S OFFICE

Jessica Foster	Acting Dean of Women.....	3,800.00
*Alice Rosemond	First Assistant to Dean.....	1,500.00
*Marjorie Ferree	Second Assistant to Dean.....	295.33
Ada S. Radcliffe	Stenographer.....	960.00
*Margaret Carter	Assistant to Dean.....	1,108.87

STUDENT HEALTH SERVICE

H. S. Wingert	Director.....	4,800.00
Richard Kimpton	Assistant Director.....	3,800.00
Lucile Young	Nurse.....	1,800.00
Maunder M. Eckhardt	Clerk.....	1,320.00
W. A. Humphrey	Assistant Physician.....	1,500.00
*Harlan Dudley	Assistant Director.....	2,250.00

STORES AND RECEIVING

F. E. Jones	Director.....	3,720.00
Blanche Sullivan	Clerk.....	1,700.00
Mabel Clum	Typist.....	1,500.00
James Lawson	Checking Clerk.....	1,700.00
Charles F. Reasoner	Laborer.....	1,260.00
*C. A. Starky	Laborer.....	600.00
W. D. Myers	Laborer.....	1,140.00
*Maines D. Shafer	Laborer.....	591.45

TELEPHONE DEPARTMENT

Katherine Napier	Telephone Operator.....	1,140.00
Margaret O'Neill	Telephone Operator.....	1,020.00
Dorothy L. Mills	Clerk.....	1,020.00

UNIVERSITY PRESS

*Meiric K. Dutton	Director.....	2,291.66
*Eileen Morrissey	Stenographer.....	360.00
*P. C. Carty	Instructor.....	2,041.00
Hugh Hardy	Clerk.....	1,500.00
G. J. Hoesch	Clerk (Janitor).....	1,260.00
Ernest Ford	Mail Carrier (Janitor).....	1,260.00

ENGINEER'S OFFICE

William C. McCracken	Chief Engineer.....	5,250.00
Earl R. Cohee	Clerk.....	1,620.00
Helen J. Bowman	Stenographer.....	1,320.00
Esther Hershberger	Stenographer.....	1,200.00

BETTERMENT OF BUILDINGS

John Kraner	Carpenter.....	2,640.00
E. I. Martin	Carpenter.....	2,220.00
Charles Blesch	Carpenter.....	2,160.00
W. E. Steel	Carpenter.....	2,160.00
A. H. Sipple	Carpenter.....	2,160.00
*Philo Felker	Carpenter (retired).....	250.00
*R. C. Kaiser	Plumber.....	250.00
E. Inscho	Plumber's Helper.....	2,000.00
Ralph Bobb	Plumber's Assistant.....	1,560.00
Benjamin H. Oyer	Plumber's Helper.....	1,500.00
S. R. Sher	Heat Regulating Man.....	1,800.00
H. R. Johnson	Tinner.....	1,800.00
Max Lehman	Painter.....	1,680.00
Earling Howard	Painter.....	1,480.00
Otis Betts	Painter.....	1,320.00
James Brain	Painter.....	1,260.00
Jesse Barr	Painter.....	1,140.00
L. A. Christian	Painter's Helper.....	1,140.00
C. D. Lowry	Laborer.....	1,140.00
*George N. Leary	Carpenter's Apprentice.....	387.10
*Ernest Limes	Plumber.....	474.19
*Thomas A. Graham	Plumber.....	2,500.00
*Oriel E. Howells	Plumber's Apprentice.....	726.87
*Earl Anthony	Plumber.....	1,575.00
*John A. Birtcher	Carpenter's Apprentice.....	369.03

LIGHT, HEAT, AND POWER

Thomas D. Banks	Superintendent Power Plant.....	3,800.00
John P. Covan	Master Mechanic.....	2,400.00
W. H. Case	Assistant Chief Engineer.....	2,160.00
Fred Brewer	Engineer.....	1,860.00
Eugene Miller	Engineer.....	1,860.00
Robert J. Huddleston	Engineer.....	1,860.00
S. Lowery	Fireman.....	1,680.00
Charles Dick	Fireman.....	1,680.00
Frank Asher	Fireman.....	1,680.00
*James A. Kirkwood	Fireman.....	560.00
*Fred R. Rhodes	Fireman.....	765.00
William Anderson	Craneman.....	1,920.00
R. A. Bowers	Laborer.....	1,800.00
George E. Shepherd	Steam Fitter.....	2,100.00
George Nye	Steam Fitter.....	1,980.00
Mike Yeager	Steam Fitter.....	1,920.00
*C. M. Shepherd	Steam Fitter's Helper.....	565.65
George Dillahunt	Electrician.....	2,040.00
Earl Achey	Assistant Electrician.....	1,680.00
C. T. Fippin	Assistant Electrician.....	1,680.00
James Schweizer	Night Trouble Man.....	2,040.00
*E. E. Motley	Machinist.....	1,280.00
Howard McDonald	Auto Mechanic.....	1,680.00
John O'Rourke	Clerk and Timekeeper.....	1,500.00
B. A. LeBay	Boiler Repair Man.....	1,620.00
I. C. Reasoner	Blacksmith.....	1,620.00
Charles Reasoner	Helper to Blacksmith.....	1,200.00
Charles Mercer	Dragline Helper.....	1,500.00
*Irwin Walker	Wiper.....	828.33
W. D. Hicks	Engineer (Retired).....	600.00
*Henry Kemmerling	Laborer.....	256.50
Ross Smeltzer	Maintenance Mechanic.....	2,100.00
Robert Murphy	Handy Man.....	1,601.61
Thomas Clark	Crane Helper.....	960.00

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*J. F. Walker	Ash Wheeler.....	80.00
W. H. Kear	Ash Wheeler.....	960.00
Francy McGinnis	Ash Wheeler.....	960.00
Jesse Johnson	Ash Wheeler.....	960.00
Domonic Bennedetto	Ash Wheeler.....	960.00
Thomas Findley	Ash Wheeler.....	960.00
*C. L. Mincer	Laborer.....	840.00
*Elmer Cavender	Electrician.....	1,543.55
*Thomas Fraggott	Laborer.....	883.50
*Wells Mercer	Engine Wiper.....	267.00
*William E. Beecher	Fireman.....	221.29
*Fred Faust	Steam Fitter's Helper.....	630.00
*Arthur Pegler	Mechanic.....	640.00
*Clarence Snider	Fireman.....	580.00
*J. W. Nichols	Fireman.....	555.48

ROADS AND GROUNDS

Paul H. Elleman	Civil Engineer.....	2,700.00
*Carl W. Albrecht	Engineer's Helper.....	345.00
Earl Bilderback	Foreman of Campus.....	1,680.00
John E. Hussey	Landscape Gardener.....	2,000.00
Frank Funk	Arborator.....	1,320.00
Leo Moran	Truck Driver.....	1,200.00
Emmett Stewart	Car Washer.....	1,196.77
Robert Dunn	Laborer.....	1,380.00
*Thomas Hill	Laborer.....	380.00
John Rhone	Teamster.....	1,140.00
*Paul Raebel	Laborer.....	300.00
J. Frdeo	Laborer.....	1,140.00
L. Stewart	Laborer.....	1,140.00
J. Hobert	Laborer.....	1,140.00
*Tony Albanese	Laborer.....	190.00
J. Stainbrook	Laborer.....	1,080.00
A. Chesbro	Laborer.....	1,080.00
*John Bugna	Laborer.....	950.00
*Harold Esper	Laborer.....	1,096.16
*Robert Graham	Engineer's Helper.....	945.97
*Thomas Maher	Laborer.....	760.00

POLICE AND WATCHMEN

William North	Day Policeman.....	1,500.00
H. S. Brown	Night Policeman.....	1,410.00
H. B. Case	Night Watchman.....	1,320.00
Alphonso Case	Night Watchman.....	1,320.00
O. D. Conaway	Night Watchman.....	1,320.00
Charles C. Clayton	Traffic Officer.....	1,320.00
Thomas Bortle	Night Watchman.....	1,320.00
H. M. Cole	Night Watchman.....	1,320.00
Michael J. Durkin	Night Watchman.....	1,320.00
B. L. Johnson	Night Watchman.....	1,320.00
Elmer T. Neff	Night Watchman.....	1,320.00

JANITORS

A. O. Kaiser	Inspector of Janitor Service.....	2,000.00
C. M. Hicks	Repair and Handy Man.....	1,200.00
Walter Penn	Janitor.....	1,200.00

William Daehler	Janitor.....	1,200.00
Harry Chantler	Janitor.....	1,200.00
A. D. Grayson	Janitor.....	1,200.00
R. M. Moore	Janitor.....	1,200.00
Oliver Smith	Janitor.....	1,200.00
L. F. Jordan	Janitor.....	1,200.00
William Cavanaugh	Janitor.....	1,200.00
W. Curry	Janitor.....	1,200.00
W. W. Smith	Janitor.....	1,200.00
Dan Brock	Janitor.....	1,200.00
J. R. Butler	Janitor.....	1,200.00
L. S. Hitchcock	Janitor.....	1,200.00
C. M. Shelton	Janitor.....	1,200.00
Forest Spencer	Janitor.....	1,200.00
C. A. Hopkins	Janitor.....	1,200.00
Arthur Stone	Janitor.....	1,200.00
Elmer McDowell	Janitor.....	1,200.00
M. Murphy	Janitor.....	1,200.00
John M. Wallace	Janitor.....	1,200.00
Edward Watson	Janitor.....	1,200.00
Charles E. Glover	Janitor.....	1,200.00
Willis Abbott	Janitor.....	1,200.00
George Wilson	Janitor.....	1,200.00
Elmer E. Smith	Janitor.....	1,200.00
C. Ashenhurst	Janitor.....	1,200.00
John M. Conti	Janitor.....	1,200.00
Lawrence J. McKenna	Janitor.....	1,200.00
William Eviston	Janitor.....	1,200.00
John S. Long	Janitor.....	1,200.00
George Perkins	Janitor.....	1,200.00
Charles Carter	Janitor.....	1,200.00
Joe Walker	Janitor.....	1,200.00
Peter J. Marquette	Janitor.....	1,200.00
Thad S. Blackwood	Janitor.....	1,200.00
William H. Shelton	Janitor.....	1,200.00
C. A. Hoppler	Janitor.....	1,200.00
*Owen F. Keenan	Janitor.....	500.00
Michael Murphy	Janitor.....	1,200.00
George W. Newman	Janitor.....	1,200.00
Alexander McCall	Janitor.....	1,200.00
John H. Jaeger	Janitor.....	1,200.00
Fred Cardosi	Janitor.....	1,200.00
James H. Kramer	Janitor.....	1,200.00
William Goff	Janitor.....	1,200.00
M. F. Cooney	Janitor.....	1,200.00
John G. McCartney	Janitor.....	1,200.00
Charles G. Lane	Janitor.....	1,200.00
*W. M. Stahl	Janitor.....	380.00
John Tordiff	Janitor.....	1,140.00
James Merrill	Janitor.....	1,140.00
J. W. Brown	Janitor.....	1,140.00
E. J. Nutt	Janitor.....	1,140.00
James Gormley	Janitor.....	1,140.00
H. Clemons	Janitor.....	1,140.00
Joseph H. Dickson	Janitor.....	1,140.00
George E. Whitmer	Janitor.....	1,140.00
James E. Harrington	Janitor.....	1,140.00
David L. James	Janitor.....	1,140.00
Arch F. Thomas	Janitor.....	1,140.00
John B. Truitt	Janitor.....	1,140.00
R. G. Glenn	Janitor.....	1,140.00
John F. Hill	Janitor.....	1,140.00
Fred H. Henkel	Janitor.....	1,140.00

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Robert Sams	Janitor.....	1,140.00
Charles E. Klinck	Janitor.....	1,140.00
Thomas Scott	Janitor.....	1,140.00
*Henry C. Curtis	Janitor.....	190.00
George Grover	Janitor-Fireman.....	1,560.00
*William Ranney	Fireman.....	840.00
Arthur C. Koenig	Student Janitor.....	600.00
J. E. Hoelscher	Student Janitor.....	600.00
Clara Derflinger	Janitress.....	900.00
Viola Parsley	Janitress.....	840.00
Lou Cornett	Janitress.....	840.00
Ocie M. Bower	Janitress.....	840.00
Rosa Lee Carter	Janitress.....	780.00
J. Thomas Christian	Elevator Man (Student).....	720.00
M. S. Harvey	Elevator Man.....	660.00
Mary Powers	Matron—Rest Room.....	840.00
*N. P. Pillai	Janitor (Student).....	300.00
*Edward J. Long	Janitor.....	1,174.19
*S. A. Williams	Janitor.....	145.16
*Harry Sigler	Janitor.....	950.00
*Patrick J. Keenan	Janitor.....	900.00
*William H. Williams	Janitor.....	920.00
*J. F. Ryan	Natorium Orderly.....	503.23
*Monroe F. Walters	Janitor.....	632.26
*R. M. Thaxton	Natorium Orderly.....	205.16

LAUNDRY

Myrtle Faught	Laundress.....	1,140.00
Elizabeth Westenhaver	Laundress.....	880.00
Dolly Gray	Laundress.....	780.00
Clara Williams	Laundress.....	780.00
Anna Krone	Laundress.....	780.00
Rosie Long	Laundress.....	780.00
*Edna Culbertson	Laundress.....	775.00
*Mary McLain	Laundress.....	180.00
*Elmer Andrews	Lauderer.....	1,067.74
*Inez Toy	Laundress.....	650.00

UNIVERSITY ARCHITECT

J. N. Bradford	University Architect.....	4,000.00
H. F. Reichard	Chief Draftsman.....	3,600.00
C. F. Mayer, jr.	Draftsman.....	2,800.00
P. E. Crider	Draftsman.....	2,500.00
A. H. Mickey	Superintendent of Construction.....	2,800.00
Herbert Baumer	Professor (half time).....	2,000.00
Elsie F. Edwards	Clerk.....	1,500.00

UNIVERSITY CHEMIST

D. J. Demorest	University Chemist.....	500.00
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BUREAU OF BUSINESS RESEARCH

Spurgeon Bell	Director and Professor.....	7,500.00
Willis Wissler	Professor.....	5,000.00
*H. D. Comer	Assistant Professor.....	3,750.00
Ralph J. Watkins	Assistant Professor.....	4,000.00
H. H. Shively	Assistant Professor.....	1,600.00

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Josephine Lowrie	Research Assistant.....	1,700.00
George W. Starr	Investigator.....	1,500.00
Erla Wombold	Stenographer.....	1,440.00
*Howard C. Greer	Professor.....	454.55
*H. H. Shively	Assistant Professor.....	666.66
Kathleen Scobie	Stenographer.....	960.00
*Bernardine Soisson	Research Assistant.....	437.50
A. E. Chandler	Research Assistant.....	2,500.00
*Howard C. Greer	Professor.....	454.45
*H. Morton Bodfish	Research Assistant.....	1,500.00
*B. F. Timmons	Research Assistant.....	1,800.00
*Lucile C. Armentrout	Stenographer.....	789.39
*Margaret Leer	Typist.....	900.00
*LaVerne Z. Daring	Student Assistant.....	210.00
*Howard Brunsman	Student Assistant.....	575.00
*J. M. Whitsett	Research Assistant.....	375.00
*William Rofkar	Research Assistant.....	375.00
*W. E. Payne	Research Assistant.....	375.00
*Clifford L. James	Research Assistant.....	600.00
*Martin F. Gaudian	Research Assistant.....	225.00

COMMERCE AND JOURNALISM EXTENSION

Thomas L. Kibler	Director and Professor of Economics.....	6,000.00
L. H. Grinstead	Assistant Professor of Marketing.....	4,500.00
J. B. Heckert	Assistant Professor.....	4,500.00
*Ralph H. Richards	Instructor.....	632.00
Dorothy Obenour	Assistant to the Director.....	1,500.00
*William H. Bamberg	Instructor.....	3,850.00
*John W. Sternberg	Assistant Professor of Business Finance.....	3,750.00
*Ayma J. Sharpe	Stenographer.....	753.33
*Charles H. Chase	Assistant Professor.....	2,450.00

A-3 UNCLASSIFIED

*Allen P. McManigal	Chimes Player.....	500.00
*John Lengacher	Instructor.....	400.00
*H. O. Armbruster	Instructor.....	200.00
*Gilbert M. Boehm	Instructor.....	200.00

ENGINEERING EXPERIMENT STATION

*Arthur E. Focke	Fellow.....	83.00
*Harold E. Simpson	Fellow.....	83.00
*Henry G. Fiske	Fellow.....	83.00
Effa Harm	Stenographer.....	180.00
*G. A. Bole	Research Professor.....	2,395.84
*F. H. Eno	Research Professor.....	2,125.00
Luella Wright	Stenographer.....	1,020.00

FARM MARKETING F-9

L. G. Foster	Assistant Professor.....	4,000.00
John Dowler	Instructor.....	1,840.00
*Errol S. Bird	Assistant.....	249.50
*Earl K. Jackson	Assistant.....	187.50
P. G. Beck	Instructor.....	2,000.00
Huber E. Denlinger	Assistant.....	750.00
*V. R. Wertz	Assistant Professor.....	1,575.00

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*Edgar Arneson	Assistant.....	562.50
*James F. Kendrick	Assistant.....	562.50
*Charles W. Hauck	Assistant.....	562.50
*Roy M. Durr	Assistant.....	125.00

DENTAL CLINIC—ROTARY

Earl G. Jones	Assistant Professor.....	1,000.00
Frank C. Starr	Instructor.....	1,100.00
Webster M. Baker	Instructor.....	1,000.00
Wendell D. Postle	Instructor.....	1,000.00
*Harvey C. Highman	Instructor.....	166.66
Edwin W. Martindale	Instructor.....	900.00
Allie F. Harness	Clerk.....	1,000.00
Edna Wallace	Stenographer.....	1,040.00
*Virginia L. Moore	Stenographer.....	800.00
Sue Merrill	Sterilization Technician.....	840.00
*Victor L. Steffel	Demonstrator.....	900.00
*Wilbur L. Marshall	Instructor.....	750.00
*Vera Finley	Technical Assistant.....	600.00
*Emma Smith	Technical Assistant.....	570.56
*George C. Pfaffenberger	Demonstrator.....	800.00
*Mercedes Lang	Clerk.....	121.29

COLLEGE OF MEDICINE—ROTARY BUDGETS

Oscar M. Peterson	Mechanic.....	2,400.00
Carl P. Effler	Technical Assistant (part).....	200.00
Katherine Worth	Technical Assistant.....	600.00
Grace Jordan	Assistant.....	400.00
Jessie Jasper	Anesthetist.....	1,800.00
Faye Irvin	Technician (part).....	660.00
Edith Miller	Pathologist (part).....	300.00
Bernard Ford	Janitor.....	600.00
Irene Ford	Janitress.....	480.00
Charles F. Smoot	Anesthetist.....	1,200.00
*Ray Brown	Technical Assistant.....	189.00
*Emily Greer	Social Service Worker.....	886.02
*Ethel Zorn	Technical Assistant.....	437.50

STORES AND RECEIVING—ROTARY

GENERAL STORE ROOM

Charles Pugh	Laborer.....	1,380.00
Frank Langworthy	Laborer.....	1,300.00
H. O. Baker	Laborer.....	1,260.00
D. R. Masters	Janitor.....	1,140.00
Wilma L. Mulby	Stenographer.....	1,140.00
*Robert W. Clark	Laborer.....	900.00

LABORATORY SUPPLY STORE

C. W. McClintock	Storekeeper.....	3,260.00
H. W. Miller	Pharmacist.....	2,100.00
L. S. Gormley	Pharmacist.....	2,100.00
Frank D. Brill	Pharmacist.....	2,100.00
*M. L. Babb	Pharmacist.....	500.00
Fred L. Williams	Assistant Pharmacist.....	1,560.00

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R. B. Leonard	Glass Blower.....	2,300.00
William E. Leonard	Glass Blower's Helper.....	1,200.00
H. L. Allison	Laborer.....	1,560.00
*Frank Westervelt	Laborer.....	650.00
Robert Dowd	Laborer.....	1,140.00
Clara Fleischer	Clerk.....	1,260.00
Stenna Logsdon	Clerk.....	1,020.00
*Kenneth Allison	Laborer.....	85.00
*Charles Selbach	Laborer.....	680.00

UNIVERSITY PRESS—PRINTING DEPARTMENT

R. W. Hodgson	Printer.....	2,600.00
C. D. Kalb	Printer.....	2,444.00
Clyde Hodgson	Printer.....	2,340.00
Joseph A. Krebs	Printer.....	2,392.00
*George Maggione	Linotype Operator.....	2,261.00
W. R. Stephens	Linotype Operator.....	2,392.00
W. H. Ziebold	Linotype Operator.....	2,340.00
*Louis F. Evans	Linotype Operator.....	797.00
Frank A. Huff	Compositor.....	2,392.00
G. F. Rodocker	Pressman.....	2,392.00
W. J. Munroe	Pressman.....	2,427.00
Charles W. Thompson	Forwarder.....	2,600.00
William Taylor	Bookbinder.....	2,340.00
Clara B. Harding	Bindery Woman.....	1,404.00
Anna B. Logan	Bindery and Pressroom Woman.....	1,404.00
*Florein Weidmer	Bindery Worker.....	819.00
Catherine Hettinger	Stenographer.....	960.00
*Albert P. Taylor	Pressman.....	1,664.00
*Frank Jones	Apprentice.....	481.00
*Irvin J. Stein	Machinist Operator.....	1,733.32
*George T. Barnes	Pressman.....	694.45
Clara Baker	Bookkeeper, Lantern.....	1,260.00

VOCATIONAL EDUCATION

Frederick Horridge	Professor.....	5,000.00
J. Ray Stein	Assistant Professor.....	4,000.00
R. W. Jenkins	Assistant Professor.....	3,750.00
Martha Okey	Secretary.....	1,260.00
Sylvia Morris	Stenographer.....	960.00
*A. Sorensen	Assistant Professor.....	150.00
*Willard W. Patty	Professor.....	3,375.00
*W. J. Larson	Instructor.....	2,250.00

AGRICULTURAL EDUCATION—SMITH-HUGHES

W. F. Stewart	Professor (part salary).....	1,600.00
H. W. Nisonger	Professor.....	3,600.00
H. G. Kenestrick	Assistant Professor.....	3,200.00
A. C. Kennedy	Instructor.....	2,800.00
E. O. Bolender	Instructor.....	2,800.00
R. G. McMurray	Instructor.....	2,704.00
F. J. Ruble	Instructor.....	2,700.00
T. H. Merriam	Instructor.....	2,700.00
*Mary Schimmel	Stenographer.....	400.00
*Beatrice Babb	Stenographer.....	800.00
*Charles F. Fossey	Graduate Resident Assistant.....	300.00
*Arthur A. Lewis	Graduate Resident Assistant.....	300.00

HOME ECONOMICS—SMITH-HUGHES

Alice M. Donnelly	Assistant Professor (part salary).....	1,400.00
Hazel Huston	Assistant Professor.....	2,700.00
Clara Bancroft	Instructor.....	2,500.00
Henrietta Wahlenmeier	Instructor.....	2,500.00
*Susan Roof	Instructor.....	366.00
Marie Kuglen	Stenographer.....	1,260.00
*Esther Loomis	Instructor.....	1,833.33
*Louise Shaner	Instructor.....	1,750.00
*Doris M. Horch	Assistant.....	631.45

APPENDIX V
THE WORK OF INSTRUCTORS—1926-1927

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
ACCOUNTING												
Elements of Accounting.....	401	5	13	401	5	210	401	5	173	401	5	100
Elements of Accounting.....	402	5	8	402	5	72	402	5	150	402	5	127
Principles of Accounting.....	601	5	15	601	5	37	601	5	29	601	5	56
Principles of Accounting.....	602	5	22	602	5	14	602	5	12
Cost Accounting.....	603	4	13	603	4	33	...	...	...
Cost Accounting.....	604	4	10	604	4	29
Problems in Cost Accounting.....	605	3	11	...	...	...	...	...	...
Institutional Accounting.....	606	5	12	...	...	...
Auditing.....	607	2	26	607	2	17	...	...	...
Auditing.....	608	2	25	608	2	16
Industrial Auditing.....	609	3	11	...	...	...
Income Tax Accounting.....	611	2	17	...	...	...	611	2	27
Constructive Accounting.....	612	4	23	...	...	...	612	4	23
Accounting Practice.....	613	4	28	613	4	19	...	...	...
Accounting Practice.....	614	4	23	614	4	19
Business Statement.....	616	3	16	...	...	...	616	3	49
Managerial Accounting.....	617	3	13
Factory Costs.....	624	5	6	...	...	...	624	5	16
Research in Accounting.....	801	3	2	...	...	...	...	...	...
Totals.....	36	...	...	483	...	...	516	...	...	492
AGRICULTURAL CHEMISTRY												
General Agricultural Chemistry.....	401	5	48	...	...	...	401	5	72
Household Chemistry.....	402	5	68	402	5	4
Household Chemistry.....	403	5	20	...	...	...	403	5	65
Advanced Biological Chemistry.....	601	5	11	...	...	...	...	...	...
Food Inspection and Analysis.....	602	5	6	...	...	...	...	...	...
Chemistry of Nutrition.....	607	5	4	...	...	...
Special Problems.....	701	3-15	1	701	3-15	2	701	3-15	3
Plant Chemistry.....	801	5-15	3	...	...	...
Special Problems.....	802	5-15	4	802	5-15	6	802	5-15	2

Research	803	5, 10 or	...	...	...	...	803	5, 10 or	...	803	5, 10 or	...
Seminary .....	...	15	1	...	...	...	...	15	4	...	15	4
Totals .....	...	...	1	...	...	99	...	...	96	...	...	156
AGRICULTURAL EDUCATION												
Principles Applied to the teaching of Vocational Agriculture in Secondary Schools..	400	5	16	...	...	...	400	5	27	400	5	9
Teaching of Vocational Agriculture to Secondary Schools.....	401	5	5	401	5	18	...	...	...	401	5	9
Observation of the Teaching of Vocational Agriculture .....	...	...	...	402	5	14	402	5	16	402	5	4
Supervised Teaching of Vocational Agriculture .....	...	...	...	403	5	14	403	5	16	403	5	4
Special Methods of Teaching Vocational Agriculture in Secondary Schools.....	601	5	12	...	...	...	601	5	12	601	5	12
History of Agricultural Education.....	602	5	1	...	...	...	...	...	...	...	...	...
Special Problems.....	801	3-12	19	...	...	...	...	...	...	...	...	...
Totals .....	...	...	53	...	...	46	...	...	71	...	...	38
AGRICULTURAL ENGINEERING												
Field Machinery.....	...	...	...	401	5	51	401	5	68	...	...	...
Plan Reading.....	...	...	...	402	3	49	402	3	59	402	3	33
Farm Motors and Tractors.....	...	...	...	...	...	...	404	5	20	404	5	15
Farm Utilities.....	...	...	...	...	...	...	405	5	7	...	...	...
Household Mechanics.....	...	...	...	406	5	54	406	5	24	406	5	44
Farm Concrete Construction.....	...	...	...	...	...	...	...	...	...	407	3	5
Dairy Mechanics.....	...	...	...	408	3	6	...	...	...	...	...	...
Farm Structures.....	...	...	...	602	5	8	...	...	...	...	...	...
Advanced Farm Power and Power Machinery.....	...	...	...	603	5	9	...	...	...	...	...	...
Farm Drainage.....	...	...	...	...	...	...	...	...	...	604	5	5
Special Problems.....	...	...	...	...	...	...	701	3-5	1	701	3-5	2
Totals .....	...	...	...	...	...	177	...	...	179	...	...	104
ANATOMY												
Comparative Anatomy of the Vertebrates.....	...	...	...	401	5	24	...	...	...	...	...	...
Comparative Anatomy of the Vertebrates.....	...	...	...	...	...	...	402	5	11	...	...	...
Comparative Vertebrate Embryology.....	...	...	...	403	5	9	...	...	...	...	...	...
Comparative Vertebrate Embryology.....	...	...	...	...	...	...	404	5	20	...	...	...
Comparative Anatomy and Embryology.....	...	...	...	...	...	...	406	5	108	...	...	...
Comparative Anatomy and Embryology.....	...	...	...	...	...	...	...	...	...	407	5	110
Elementary Neurology.....	...	...	...	408	5	5	...	...	...	...	...	...
Elementary Neurology .....	...	...	...	...	...	...	409	5	2	...	...	...
Visceral Anatomy.....	...	...	...	410	3	28	...	...	...	410	3	21
Elementary Human Anatomy.....	...	...	...	...	...	...	...	...	...	412	5	47
Comparative Anatomy of the Vertebrates....	...	...	...	...	...	...	...	...	...	413	5	34
Comparative Anatomy of the Vertebrates....	...	...	...	...	...	...	414	5	55	...	...	...
The Eye.....	...	...	...	...	...	...	...	...	...	437	4	10
Human Anatomy.....	...	...	...	438	7	72	...	...	...	...	...	...
Human Anatomy.....	439	7	65
Histology and Embryology.....	440	7	73
Seminary	601	1	3	601	1	4

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Vision Optics.....	411	4	7	412	4	7	413	4	7
Vision Optics.....	411	4	7	412	4	7	413	4	7
Vision Optics.....	411	4	7	412	4	7	413	4	7
Theoretical Applied Optics.....	421	3	8	421	3	8	423	3	8
Theoretical Applied Optics.....	421	3	8	421	3	8	423	3	8
Mechanical Optics.....	431	2	8	432	2	8	433	2	8
Mechanical Optics.....	431	2	8	432	2	8	433	2	8
Clinical Laboratory Practice.....	441	5	8	441	5	8	442	5	8
Clinical Laboratory Practice.....	441	5	8	441	5	8	442	5	8
Clinical Laboratory Practice.....	441	5	8	441	5	8	442	5	8
Totals	35	44	443	5	8	443	5	8	36

ARCHITECTURE

Shades and Shadows.....	401	3	70	402	3	52	403	3	56
Perspective.....	421	5	67	422	5	27	422	5	18
Composition.....	422	5	3	423	5	4	423	5	23
Elements of Architecture.....	423	5	7	423	5	4	423	5	23
Order Problems.....	431	3	30	423	3	27	433	3	27
Order Problems.....	431	3	30	423	3	27	433	3	27
History of Architecture—Ancient.....	611	3	17	624	5	4	611	3	31
History of Architecture—Classic.....	624	5	16	625	5	17	624	5	2
History of Architecture—Medieval.....	625	5	7	625	5	17	625	5	5
Photography.....	626	8	2	626	8	1	626	8	13
Architectural Design.....	630	5	9	630	5	9	630	5	9
Architectural Design.....	634	3	14	635	3	14	635	3	14
Architectural Design.....	634	3	14	635	3	14	635	3	14
Construction—Wood.....	640	5	10	640	5	10	641	5	8
History of Architecture—Renaissance.....	644	3	31	645	3	23	646	3	20
History of Architecture—Modern.....	644	3	31	645	3	23	646	3	20
Construction—Timber Framing.....	645	3	23	646	3	20	646	3	20
Construction—Masonry.....	646	3	20	646	3	20	646	3	20
History of Architecture.....	646	3	20	646	3	20	646	3	20
History of Architecture.....	646	3	20	646	3	20	646	3	20
History of Architecture.....	646	3	20	646	3	20	646	3	20
Professional Practice.....	646	3	20	646	3	20	646	3	20
Thesis.....	646	3	20	646	3	20	646	3	20
Advanced Architectural Design.....	646	3	20	646	3	20	646	3	20
Advanced Architectural Design.....	646	3	20	646	3	20	646	3	20
Ornament.....	646	3	20	646	3	20	646	3	20
Construction: Masonry and Concrete.....	646	3	20	646	3	20	646	3	20
Building Sanitation.....	646	3	20	646	3	20	646	3	20
Construction: Design.....	646	3	20	646	3	20	646	3	20
Construction: Design.....	646	3	20	646	3	20	646	3	20
Building Sanitation.....	646	3	20	646	3	20	646	3	20
Fire Protection.....	646	3	20	646	3	20	646	3	20
Advanced Photography.....	646	3	20	646	3	20	646	3	20
Totals	299	245	283	299	245	283	299	245	283

ASTRONOMY

General Astronomy.....	401	5	185	401	5	82	401	5	95
General Astronomy.....	402	5	28	402	5	82	402	5	70
Totals	163	164	165	163	164	165	163	164	165

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
BACTERIOLOGY												
Bacteriology (Pharmaceutical).....	402	3	3
General Bacteriology.....	431	5	10	...	...	...	...	...	...
Pathogenic Bacteriology.....	432	5	11	...	...	...
Bacteriology (Dental).....	450	5	78
General Bacteriology.....	607	5	29	607	5	79	...	...	...	607	5	33
Pathogenic Bacteria.....	608	3	28	...	...	...	608	3	33	...	...	...
Pathogenic Bacteria.....	609	3	20	...	...	...	609	3	15	...	...	...
Dairy Bacteriology.....	610	3	6	...	...	...
Water Examination, Sewage Disposal and Water Filtration.....	614	3	5	...	...	...
Water Examination, Sewage Disposal and Water Filtration.....	615	3	1	...	...	...
Immunity and Serum Therapy.....	617	3	40	...	...	...	617	3	40
Immunity and Serum Therapy.....	618	3	9
Special Technique in Pathogenic Bacteriology.....	625	5	9	...	...	...	...	...	...
Special Technique in Pathogenic Bacteriology.....	626	5	8	...	...	...
Special Problems in Pathogenic Bacteriology.....	627	5	3
Medical Bacteriology.....	641	5	57	...	...	...	...	...	...
Medical Bacteriology.....	642	3	61	...	...	...
Research Work in Pathogenic Bacteriology.....	801	5-10	2	...	...	...	...	...	...
Research Work in Pathogenic Bacteriology.....	802	5-10	5	...	...	...
Research Work in Pathogenic Bacteriology.....	803	5-10	4
Research Technology.....	804	5	1	...	...	...	...	...	...
Research Work in Agricultural or Technical Bacteriology.....	805	5-10	1	...	...	...
Research Work in Agricultural or Technical Bacteriology.....	806	5-10	1
Totals.....	77	...	...	198	...	...	146	...	...	171
BIBLIOGRAPHY												
Bibliography of the Social Sciences, General Reference.....	505	2	12	...	...	...	...	...	...
BOTANY												
General Botany.....	401	5	45	401	5	388	401	5	198	401	5	204
General Botany.....	402	5	40	402	5	152	402	5	340	402	5	183
Local Flora.....	405	5	16

Local Flora.....	...	...	...	...	...	...	...	...	406	5	16
Plant Physiology.....	...	...	...	415	5	28	...	...	...	...	...
Plant Physiology.....	...	...	...	...	...	...	416	5	23	...	...
General Plant Pathology.....	...	...	...	419	5	15	...	...	419	5	19
Plant Ecology.....	...	...	...	601	5	14	...	...	...	...	...
Plant Ecology.....	...	...	...	...	...	...	...	...	602	5	...
Principles of Taxonomy—Pteridophytes and Gymnosperms.....	...	...	...	607	5	2	...	...	...	...	...
Principles of Taxonomy—Monocotyls.....	...	...	...	...	...	...	608	5	4	...	...
Principles of Taxonomy—Dicotyls.....	...	...	...	...	...	...	...	...	609	5	3
Evolution of Plants.....	...	...	...	...	...	...	...	...	611	5	7
Plant Microchemistry.....	...	...	...	617	5	5	...	...	...	...	...
Economic Botany.....	619	5	9	...	...	...	...	...	...	...	...
Economic Botany.....	...	...	...	...	...	...	620	5	15	...	...
Physiological Research Methods.....	...	...	...	...	...	...	633	3	6	...	...
Plant Growth.....	...	...	...	...	...	...	...	...	634	3	8
Methods in Plant Pathology.....	...	...	...	...	...	...	...	...	651	3	5
Mycology.....	...	...	...	...	...	...	653	5	4	...	...
Diseases of Garden Crops.....	...	...	...	...	...	...	657	3	3	...	...
Advanced Mycology.....	...	...	...	661	3	4	...	...	...	...	...
Minor Investigations: Taxonomy—	...	...	...	701	2-5	1	...	...	701	2-5	2
Physiology and Ecology.....	703	2-5	3	703	2-5	4	703	2-5	4
Pathology and Mycology.....	704	2-5	1	704	2-5	3	704	2-5	6
Economic Botany.....	705	2-5	1	...	...	...	...	...	...	...	...
Research in Systematic Botany.....	801	3-10	1	801	3-10	1
Research in Morphology and Cytology.....	802	4-10	1	802	4-10	1
Research in Physiology and Ecology.....	803	4-10	6	803	4-10	2	803	4-10	1	803	4-10	3
Research in Mycology and Plant Pathology...	804	4-10	2	804	4-10	1
Research in Economic Botany.....	806	4-10	4	...	...	...	...	...	...	...	...
Botanical Seminary.....	810	1	6	810	1	6	810	1	7
Totals.....	...	...	106	...	...	622	...	...	609	...	582

BUSINESS ORGANIZATION

Social Science.....	...	...	...	400	5	246	400	5	161	400	5	103
Social Science.....	401	5	13	401	5	52	401	5	152	401	5	164
Business Communications and Adjustment Practices.....	...	...	...	604	3	42	604	3	26	604	3	54
Secretarial Problems.....	...	...	...	...	...	...	606	3	9	...	...	...
Secretarial Problems.....	...	...	...	...	...	...	...	...	...	607	3	8
Business Statistics.....	...	...	...	...	...	...	614	3	20	614	3	14
Public Aspects of Industry.....	...	...	...	...	...	...	620	1	171	...	...	...
Business Law: Contracts.....	...	...	...	621	3	115	621	3	101	621	3	78
Business Law: Agency and Sales.....	...	...	...	623	3	31	623	3	89	623	3	86
Business Law: Negotiable Instruments.....	...	...	...	625	3	50	625	3	28	625	3	78
Business Law: Partnerships and Corporation.....	...	...	...	...	...	...	...	...	...	627	3	43
Business Law: Aspects of Credits and Collections.....	...	...	...	629	3	27	629	3	28	...	...	...
Business Organization and Control.....	640	3	20	640	3	41	640	3	65	640	3	26
Real Estate Principles and Practice.....	...	...	...	642	3	21	642	3	7	642	3	20
Trade Associations.....	...	...	...	...	...	...	645	3	19	...	...	...
Corporation Finance.....	650	5	28	650	5	50	650	5	78	650	5	84
Industrial Finance.....	652	3	47

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Railroad and Public Utility Finance.....	656	3	27	...	...	...
Investments	658	3	12	...	...	...	658	3	22
The Stock Market.....	660	3	37	...	...	...	660	3	21
The Money Market.....	662	3	9
Foreign Exchange.....	665	3	21	...	...	...
Practice Work in Banking.....	666	1-3	3	...	...	...	...	...	...
Practice Work in Banking.....	667	1-3	7	...	...	...
Practice Work in Banking.....	668	1-3	6
Bank Organization and Management.....	670	3	13	...	...	...
Savings and Trust Functions of Banks.....	674	5	11	...	...	...	...	...	...
Industrial Organization Management.....	680	5	24	680	5	26	...	...	...
Industrial Organization Management.....	681	3	10
Industrial Management Field Work.....	684	3-6	10	684	3-6	7	684	3-6	1
Material Organization and Management.....	685	3	21	...	...	...
Employment Organization and Management.....	686	3	12	...	...	...	686	3	10
Production Organization and Management.....	687	4	20
Time and Motion Study.....	692	3	1	692	3	7
Problems in Employment Organization and Management.....	695	1-3	4	...	...	...	...	...	...
Problems in Production Organization and Management.....	696	1-3	4	...	...	...
Industrial Problems.....	697	1-3	3
Marketing	700	5	29	700	5	97	700	5	87	700	5	48
Marketing Problems.....	702	3	18	702	3	29	702	3	58	702	3	29
Marketing Problems.....	703	3	17
Retailing and Wholesaling.....	705	4	30	705	4	40	705	4	17
Retailing and Wholesaling.....	706	4	32
Credit and Collections.....	709	3	27	709	3	28	709	3	39
Salesmanship.....	712	3	14	712	3	55	712	3	39	712	3	60
Principles of Advertising.....	716	3	27	716	3	59	716	3	32
Advertising Practice.....	717	3	15
Exporting and Importing.....	720	3	23
Exporting and Importing.....	721	3	8	...	...	...	...	...	...
Field Work in Marketing.....	725	3-6	5	...	...	...	...	...	...	...	...	...
Thesis in Marketing and Advertising.....	726	1-3	9	726	1-3	3	...	...	...	...	...	...
Thesis in Marketing and Advertising.....	727	1-3	10	...	...	...
Thesis in Marketing and Advertising.....	728	1-3	5
Sales Administration.....	730	3	50	730	3	26

Railway and Public Utility Organization and Finance .....	...	...	...	...	...	740	3	17	...	...	...
Port and Terminal Problems .....	...	...	...	...	...	744	3	7	...	...	...
Ocean and Island Water Commerce and Transportation .....	...	...	...	745	3	12	...	...	...	...	...
Traffic Management and Rate Making	752	3	5	...	...	752	3	7	...	...	...
Traffic Management and Rate Making .....	...	...	...	...	...	...	...	...	753	3	5
Research in Corporation Organization and Finance	801	1-6	4	801	1-6	4	...	...	...	...	...
Research in Corporation Organization and Finance .....	...	...	...	...	...	...	802	1-3	4	...	...
Research in Corporation Organization and Finance .....	...	...	...	...	...	...	...	...	803	1-3	4
Railway Service and Regulation .....	...	...	...	...	...	...	...	...	807	1-3	1
Public Utility Rate Making and Management of Public Utilities .....	...	...	...	...	...	810	1-3	2	...	...	...
Public Utility Rate Making and Management of Public Utilities .....	...	...	...	...	...	...	...	...	811	1-3	2
Research in Marketing	817	1-6	5	817	1-6	4	...	...	...	...	...
Research in Marketing .....	...	...	...	...	...	818	1-6	6	...	...	...
Research in Marketing .....	...	...	...	...	...	...	...	...	819	1-6	3
Research in Banking .....	...	...	...	821	1-3	3	...	...	...	...	...
Research in Banking .....	...	...	...	...	...	822	1-3	7	...	...	...
Research in Banking .....	...	...	...	...	...	...	...	...	823	1-3	9
Research in Advertising and Sales	824	1-6	1	...	...	...	...	...	...	...	...
Research in Advertising and Sales .....	...	...	...	...	...	...	...	...	826	1-6	1
Graduate Seminary in Business Organization	831	2	13	831	2	10	...	...	...	...	...
Graduate Seminary in Business Organization .....	...	...	...	...	...	...	832	2	10	...	...
Graduate Seminary in Business Organization .....	...	...	...	...	...	...	...	...	833	2	10
Research in Industrial Management .....	...	...	...	835	1-6	1	...	...	...	...	...
Research in Industrial Management .....	...	...	...	...	...	...	836	1-3	3	...	...
Research in Industrial Management .....	...	...	...	...	...	...	...	...	837	1-3	3
Totals .....	...	...	164	...	...	1098	...	...	1515	...	1295

CERAMIC ENGINEERING

Occurrence and Properties of Clays .....	...	...	...	...	...	401	4	53	...	...	...
Winning, Preparation, and Forming .....	...	...	...	...	...	...	...	...	405	4	48
Drying and Forming .....	...	...	...	...	...	601	5	35	...	...	...
Bodies, Glazes and Color .....	...	...	...	...	...	605	4	36	...	...	...
Refractories and Furnaces .....	...	...	...	...	...	...	...	...	610	5	42
Ceramic Calculations .....	...	...	...	615	5	38	...	...	...	...	...
Physical and Chemical Measurements of Clays and Other Materials .....	...	...	...	...	...	620	5	33	...	...	...
Junior Inspection Trip .....	...	...	...	...	...	...	...	...	630	...	22
Laboratory Work in Ceramics .....	...	...	...	701	5	27	...	...	701	5	1
Laboratory Work in Ceramics .....	...	...	...	...	...	702	5	27	...	...	...
Laboratory Work in Ceramics .....	...	...	...	...	...	...	...	...	703	5	18
Laboratory Work in Ceramics .....	...	...	...	...	...	...	...	...	704	5	11
Ceramic Designing .....	...	...	...	705	5	28	...	...	705	5	1
Ceramic Designing	706	5	28
Ceramic Designing	707	5	26
Thesis	710	2	1	710	2	21	710	2

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Thesis	711	4	1	711	4	2	711	4	20
Senior Inspection Trip.....	730	...	26
Research Work.....	801	3-10	1
Research Work.....	802	3-10	1
Research Work.....	803	3-10	1
Testing of Clays With Reference to Industrial Adaptability	805	2	1
Testing of Clays With Reference to Industrial Adaptability	806	2	1
Porcelain for Electrical and Other Special Purposes	810	2	1
Porcelain for Electrical and Other Special Purposes	811	2	1
Porcelain for Electrical and Other Special Purposes	812	2	1
Advanced Experimental Work.....	815	2-5	1
Advanced Experimental Work.....	817	2-5	1
Master's Thesis.....	6-12	1	...	6-12	2	...	6-12	1
Ph. D. Research.....	3-10	2	...	3-10	1	...	3-10	2
Totals	102	241	223
CHEMICAL ENGINEERING												
Chemical Engineering Practice Work.....	501	5	22
Elements of Chemical Engineering.....	700	2	22
Industrial Chemistry.....	701	3	3	701	3	24
Industrial Chemistry.....	702	3	21
Inspection Trip to the East.....	703	...	39
Chemical Engineering and Industrial Chemical Laboratory	706	5	2	706	5	19
Engineering Chemistry.....	707	3	19
Applied Electrochemistry.....	720	2	12
Chemical Engineering Thesis.....	721	5-6	13
Chemical Engineering Thesis.....	721	5-6	1	900	2-5	1
Advanced Industrial Chemistry.....
Seminary in Industrial Chemistry.....	905	2	8
Seminary in Industrial Chemistry.....	906	2	8
Seminary in Industrial Chemistry.....	907	2	14
Chemical Research.....	950	5-15	14	950	5-15	10	950	5-15	11	950	5-15	13
Totals	20	61	94	107

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Elementary Chemistry.....	401	5	666	401	5	112
Elementary Chemistry.....	402	5	524	402	5	108
Qualitative Analysis.....	403	5	16	...	...	...	...	...	...	403	5	261
General Chemistry.....	...	...	...	411	5	879	411	5	135	...	...	...
General Chemistry.....	...	...	...	...	...	...	412	5	695	412	5	100
Qualitative Analysis.....	413	5	24	...	...	...	...	...	...	413	5	518
Qualitative Analysis.....	...	...	...	421	4	126	...	...	...	...	...	...
Qualitative Analysis.....	...	...	...	...	...	...	422	4	94	...	...	...
Qualitative Analysis.....	...	...	...	...	...	...	...	...	...	423	4	64
Problems in Quantitative Analysis.....	...	...	...	...	...	...	...	...	...	424	1	44
Organic Chemistry.....	...	...	...	441	3	261	...	...	...	...	...	...
Organic Chemistry.....	...	...	...	...	...	...	442	3	222	...	...	...
Organic Chemistry.....	...	...	...	...	...	...	445	2	211	...	...	...
Organic Chemistry.....	...	...	...	447	3	60	...	...	...	...	...	...
Organic Chemistry.....	...	...	...	...	...	...	448	3	61	...	...	...
Organic Chemistry—Laboratory.....	...	...	...	449	3	52	...	...	...	...	...	...
Organic Chemistry—Laboratory.....	...	...	...	...	...	...	450	3	37	...	...	...
Reading of Chemical Periodicals in German.....	...	...	...	...	...	...	...	...	...	581	3	13
Advanced Quantitative Analysis.....	...	...	...	621	4-5	8	...	...	...	...	...	...
General Quantitative Analysis.....	622	3	22	...	...	...	622	3	10	...	...	...
Advanced Qualitative Analysis.....	...	...	...	...	...	...	...	...	...	624	4-5	4
Water Analysis.....	625	5	10	...	...	...	...	...	...	625	5	8
Industrial Water Problems.....	627	3	9	...	...	...	627	3	5	...	...	...
Qualitative Organic Analysis.....	641	3	8	...	...	...	...	...	...	641	3	28
Quantitative Organic Analysis.....	...	...	...	...	...	...	...	...	...	642	3	...
Advanced General Chemistry.....	...	...	...	...	...	...	622	3	15	...	...	...
The Rare Elements.....	...	...	...	663	3	19	...	...	...	...	...	...
Inorganic Preparations.....	672	3	13	...	...	...	...	...	...	672	3	20
Physical Chemistry.....	...	...	...	681	3	76	...	...	...	...	...	...
Physical Chemistry.....	...	...	...	...	...	...	682	3	44	...	...	...
Physical Chemistry.....	683	3	23	...	...	...	...	...	...	683	3	46
Physical Chemistry—Laboratory.....	691	2	12	691	2	23	...	...	...	691	2	2
Physical Chemistry—Laboratory.....	692	2	10	692	2	5	692	2	14	692	2	2
Physical Chemistry—Laboratory.....	693	2	16	693	2	4	693	2	...	693	2	9
Colloid Chemistry.....	...	...	...	...	...	...	695	3	12	...	...	...
Theoretical Electrochemistry.....	...	...	...	696	3	9	...	...	...	...	...	...
Minor Problems in Chemistry.....	699	3-15	1	699	3-15	2	699	3-15	2	699	3-15	3
The Teaching of Chemistry.....	...	...	...	...	...	...	...	...	...	710	3	9
Chemical Bibliography.....	...	...	...	...	...	...	781	1	22	...	...	...
Chemical Biography.....	...	...	...	...	...	...	...	...	...	783	1	23
Advanced Organic Chemistry.....	841	3	17	841	3	16	...	...	...	...	...	...
Advanced Organic Chemistry.....	...	...	...	...	...	...	842	3	18	...	...	...
Advanced Organic Preparations: Laboratory.....	844	3-5	6	844	3-5	12	...	...	...	...	...	...
Advanced Organic Preparations: Laboratory.....	...	...	...	...	...	...	845	3-5	14	...	...	...
Seminary in Organic Chemistry.....	...	...	...	850	3	16	...	...	...	...	...	...
Seminary in Organic Chemistry.....	...	...	...	...	...	...	851	3	16	...	...	...
Seminary in Organic Chemistry.....	...	...	...	...	...	...	...	...	...	852	3	21
Seminary in Organic Chemistry.....	853	2	10	...	...	...	...	...	...	...	...	...
Physical Chemistry: Laboratory.....	861	3	5	861	3	8	...	...	...	861	3	2
Physical Chemistry: Laboratory.....	862	3	3	862	3	2	862	3	5
Physical Chemistry: Laboratory.....	863	3	...

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Seminary in Inorganic Chemistry.....	891	3	11	891	3	8	866	2	10	...	...	...
Seminary in Physical Chemistry.....	892	3	16	...	...	...
Seminary in Physical Chemistry.....	950	5-15	11	950	5-15	26	950	5-15	32	950	5-15	27
Chemical Research.....	227	...	...	2518	...	...	2326	...	...	1321
Totals.....
CIVIL ENGINEERING												
Land Surveying.....	401	5	62	401	5	14	...	...	...
Plane Surveying.....	402	5	51	402	5	7
Railroad Surveying.....	403	5	7	...	...	...	403	5	53
Topographic Drawing.....	404	4	6	404	4	55	...	...	...
Applied Descriptive Geometry.....	405	4	43
Summer Surveying Camp.....	407	6	5	...	...	...	...	...	...	...	...	...
Elementary Surveying.....	411	3	32	...	...	...	411	3	49
Surveying.....	412	5	10	...	...	...	...	...	...
Topographic Surveying.....	601	5	40	...	...	...	601	5	6
Sanitary Engineering.....	602	5	45	...	...	...	...	...	...
Timber Construction.....	603	5	44	...	...	...
Stresses in Structures.....	604	5	50
Roads and Pavements.....	605	5	53
Cement and Concrete.....	606	3	51
Summer Surveying Camp.....	607	6	3	...	...	...	...	...	...	...	...	...
Precise Surveying.....	608	3	36	...	...	...	...	...	...
Adjustment of Observations.....	609	3	33	...	...	...
Timber and Masonry.....	611	3	34	...	...	...
Concrete Design.....	701	5	37	...	...	...	...	...	...
Bridge Design.....	702	5	42	...	...	...	...	...	...
Water Supply Engineering.....	703	5	36	...	...	...
Masonry Construction.....	704	5	37	...	...	...
Masonry Structures.....	705	5	36
Thesis.....	706	1	32	...	...	...	706	1	1
Thesis.....	707	2	38	...	...	...
Thesis.....	708	5	2	...	...	...	708	5	31
Factory Building Construction.....	711	3	5	711	3	12
Trusses.....	712	5	12	712	5	11	712	5	46
Concrete Design.....	713	5	12	...	...	...	...	...	...
Steel-Frame Buildings.....	714	5	12	...	...	...
Railway Engineering.....	730	3	8	...	...	...	...	...	...

Contracts and Specifications.....	...	...	...	783	3	14	...	...	...	782	3	10
Tall Buildings.....	...	...	...	...	...	...	...	...	...	...	...	...
Advanced Bridges.....	...	...	...	...	...	...	734	3	20	...	...	...
Advanced Bridges.....	...	...	...	...	...	...	...	...	...	735	3	12
Municipal Engineering.....	...	...	...	736	3	4	...	...	...	...	...	...
Highway Engineering.....	...	...	...	...	...	...	738	3	5	...	...	...
Highway Materials.....	...	...	...	...	...	...	...	...	...	739	3	5
Totals .....	...	...	8	...	...	401	...	...	395	...	...	465

DAIRYING

Principles of Dairying.....	401	5	5	401	5	33	401	5	64	401	5	9
Farm Dairying.....	...	...	...	...	...	...	402	2	29	402	5	17
Testing of Milk Products.....	...	...	...	403	5	5	...	...	...	403	5	5
City Milk Supply.....	...	...	...	404	5	4	...	...	...	...	...	...
Butter Making.....	...	...	...	...	...	...	...	...	...	405	5	2
Dairy Practice.....	...	...	...	406	3-10	1	...	...	...	...	...	...
Soft Cheese Making.....	...	...	...	...	...	...	407	3	5	407	3	2
Hard Cheese Making.....	...	...	...	...	...	...	408	5	4	...	...	...
Milk Condensing.....	...	...	...	409	3	8	...	...	...	...	...	...
Ice Cream Making.....	...	...	...	410	5	7	...	...	...	...	...	...
Dairy Mechanics.....	...	...	...	411	3	7	...	...	...	...	...	...
City Milk Inspection.....	...	...	...	...	...	...	...	...	...	412	3	11
Advanced Dairying.....	...	...	...	413	3-5	5	413	3-5	8	413	3-5	1
Dairy Inspection Trip.....	...	...	...	...	...	...	...	...	...	602	3	8
Dairy Herd Management.....	...	...	...	603	3-5	1	...	...	...	603	3-5	5
Special Problems in Dairy Manufacturing Practice .....	...	...	...	...	...	...	604	3-15	5	...	...	...
Advanced Dairying.....	...	...	...	...	...	...	801	5-10	1	801	5-10	1
Totals .....	...	...	5	...	...	71	...	...	116	...	...	61

OPERATIVE DENTISTRY

Dental Anatomy.....	...	...	...	...	...	...	402	2	52	...	...	...
Dental Anatomy and Operative Technic.....	...	...	...	...	...	...	...	...	...	403	3	47
Operative Technic.....	...	...	...	405	3	67	...	...	...	...	...	...
Operative Technic.....	...	...	...	...	...	...	406	3	66	...	...	...
Principles and Practices of Operative Dentistry.....	...	...	...	409	5	54	...	...	...	...	...	...
Principles and Practices of Operative Dentistry.....	...	...	...	...	...	...	410	5	53	...	...	...
Principles and Practices of Operative Dentistry.....	...	...	...	...	...	...	...	...	...	411	5	52
Principles and Practices of Operative Dentistry.....	...	...	...	413	4	40	...	...	...	...	...	...
Principles and Practices of Operative Dentistry.....	...	...	...	...	...	...	414	4	40	...	...	...
Dental Hygiene: Immunology.....	...	...	...	...	...	...	...	...	...	415	4	41
Oral Hygiene.....	...	...	...	...	...	...	...	...	...	416	1	70
Oral Hygiene.....	...	...	...	417	3	57	...	...	...	...	...	...
Porcelain Technic.....	...	...	...	...	...	...	418	3	56	...	...	...
Dental Medicine.....	...	...	...	...	...	...	...	...	...	419	1	56
Dental Medicine.....	...	...	...	421	1	56	...	...	...	...	...	...
Dental Medicine.....	...	...	...	...	...	...	422	1	55	...	...	...
Dental Medicine.....	...	...	...	425	2	41	...	...	...	423	2	57
Dental Medicine.....	426	2	40
Orthodontia Principles and Technic.....	427	2	41
...	431	2	52

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Orthodontia	433	2	46	...	...	...	...	...	...
Orthodontia Principles and Practice.....	434	2	41	...	...	...
Orthodontia Principles and Practice.....	435	2	41
Anasthetics	437	2	44	...	...	...	...	...	...
Anasthetics	438	2	42	...	...	...
Anasthetics	439	2	41
Ethics, Economics, History and Jurisprudence.	441	1	43	...	...	...	...	...	...
Ethics, Economics, History and Jurisprudence.	442	1	42	...	...	...
Ethics, Economics, History and Jurisprudence.	443	1	42
Oral Surgery.....	445	2	43	...	...	...	...	...	...
Oral Surgery.....	446	2	41	...	...	...
Oral Surgery.....	447	2	41
Dental Pathology.....	452	2	40
Totals	491	...	...	528	...	...	621
PROSTHESIS (DENTISTRY)												
Prosthetic Dentistry Technic.....	401	4	58	...	...	...	...	...	...
Prosthetic Dentistry Technic.....	402	4	51	...	...	...
Prosthetic Dentistry Technic.....	403	4	45
Prosthetic Dentistry Technic.....	405	3	59	...	...	...	...	...	...
Prosthetic Dentistry Technic.....	406	3	55	407	3	64
Prosthetic Dentistry (Principles and Practices)	409	3	60	...	...	...	407	3	64
Prosthetic Dentistry (Principles and Practices)	410	3	54	...	...	...
Prosthetic Dentistry (Principles and Practices)	411	3	48
Prosthetic Dentistry Practice.....	413	2	42	...	...	...	...	...	...
Prosthetic Dentistry Practice.....	414	2	41	...	...	...
Prosthetic Dentistry Practice.....	415	2	41
Dental Metallurgy.....	419	2	75
Crown and Bridge Technic.....	421	3	58	...	...	...	...	...	...
Crown and Bridge Technic.....	422	2	55	...	...	...
Crown and Bridge Technic.....	423	2	53
Crown and Bridge Technic.....	425	2	56	...	...	...	...	...	...
Crown and Bridge Technic.....	426	2	56	...	...	...
Crown and Bridge Technic.....	427	2	56
Crown and Bridge Technic.....	429	2	42	...	...	...	...	...	...
Crown and Bridge Technic and Practice.....

Crown and Bridge Technic and Practice.....	...	...	...	...	...	...	430	2	41	...	...	...
Crown and Bridge Technic and Practice.....	...	...	...	...	...	...	...	...	...	481	2	41
Totals .....	...	...	...	...	...	375	...	...	357	...	...	423
ECONOMICS												
Principles of Economics.....	401	5	71	401	5	371	401	5	173	401	5	193
Principles of Economics.....	402	5	52	402	5	124	402	5	316	402	5	162
Principles of Economics for Engineers.....	...	...	...	403	3	34	403	3	30	...	...	...
Principles of Economics for Engineers.....	...	...	...	...	...	...	404	3	37	404	3	24
Principles of Economics for Agricultural Students .....	...	...	...	405	5	7	405	5	23	405	5	18
Principles of Economics for Home Economics Students .....	...	...	...	407	5	27	407	5	38	407	5	24
Outlines of Public Finance.....	...	...	...	...	...	...	...	...	...	409	5	17
Introduction to Study of Labor Problems.....	...	...	...	...	...	...	...	...	...	410	3	18
Modern Industrial Development.....	412	5	24	...	...	...	...	...	...	412	5	14
Principles and Problems of Economics.....	...	...	...	601	3	11	...	...	...	...	...	...
Principles and Problems of Economics.....	...	...	...	...	...	...	602	3	8	...	...	...
Principles and Problems of Economics.....	...	...	...	607	3	20	...	...	...	603	3	8
Financial History of U. S.....	...	...	...	...	...	...	...	...	...	...	...	...
Financial History of U. S.....	...	...	...	...	...	...	608	3	22	...	...	...
Money and Banking.....	610	5	26	610	5	93	610	5	105	610	5	68
Advanced Money.....	...	...	...	611	2	9	...	...	...	...	...	...
Advanced Banking.....	...	...	...	...	...	...	612	3	9	...	...	...
Corporation Economics.....	...	...	...	616	5	16	...	...	...	...	...	...
Trusts and Monopolies.....	...	...	...	617	3	8	...	...	...	...	...	...
Transportation Economics.....	618	5	14	618	5	75	618	5	46	618	5	34
Economic Statistics.....	...	...	...	622	3	53	622	3	75	622	3	33
Principles of Insurance.....	...	...	...	624	3	14	...	...	...	...	...	...
Economic Forecasting.....	...	...	...	...	...	...	625	2	7	...	...	...
Economic Forecasting.....	...	...	...	...	...	...	...	...	...	626	2	5
Public Finance.....	631	3	15	631	3	29	...	...	...	631	3	16
Public Finance.....	632	3	12	632	3	23	632	3	27	...	...	...
Public Finance.....	633	3	10	...	...	...	633	3	10	633	3	21
Industrial Relations.....	...	...	...	637	3	25	...	...	...	...	...	...
Labor Legislation.....	...	...	...	...	...	...	638	3	34	...	...	...
Social Insurance.....	...	...	...	...	...	...	...	...	...	639	3	24
Women in Industry.....	...	...	...	...	...	...	643	4	13	...	...	...
The Household.....	...	...	...	644	4	25	...	...	...	...	...	...
Economics of Public Service Industries.....	...	...	...	648	5	15	...	...	...	...	...	...
International Commercial Policies.....	...	...	...	...	...	...	...	...	...	651	3	26
Price and the Economic Cycle.....	...	...	...	...	...	...	...	...	...	655	2	7
Wages and Profits.....	...	...	...	656	3	11	...	...	...	...	...	...
Socialism.....	...	...	...	...	...	...	657	3	47	...	...	...
Economic Problems of Population.....	...	...	...	658	2	11	...	...	...	...	...	...
Economic Problems of Population.....	...	...	...	...	...	...	659	2	4	...	...	...
Economic History of the United States.....	...	...	...	661	3	9	...	...	...	...	...	...
Economic History of the United States.....	...	...	...	...	...	...	662	3	7	...	...	...
Economic History of the United States.....	...	...	...	...	...	...	...	...	...	663	3	8
History of Economic Thought.....	...	...	...	801	3	13	...	...	...	...	...	...
History of Economic Thought.....	802	3	14	802	3	11
History of Economic Thought.....	803	3	8

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Principles of Economics for College Teachers.....	810	2	10	...	...	...	...	...	...
Principles of Economics for College Teachers.....	811	2	10	...	...	...
Modern Economic Theories.....	816	3	7	...	...	...	...	...	...
Modern Economic Theories.....	817	3	7	...	...	...
Modern Economic Theories.....	818	3	8
French and German Economics.....	819	2	7	...	...	...	...	...	...
French and German Economics.....	820	2	3	...	...	...
French and German Economics.....	821	2	6
Seminary in Economics and Statistics.....	822	2	16	...	...	...	...	...	...
Seminary in Economics and Statistics.....	823	2	17	...	...	...
Seminary in Economics and Statistics.....	824	2	15
Research in Labor Problems and Legislation.....	828	1-3	2	...	...	...	...	...	...
Research in Labor Problems and Legislation.....	829	1-3	2	...	...	...
Research in Labor Problems and Legislation.....	830	1-3	4
Railroad Rates and Rate Control.....	832	1-3	1	...	...	...
Research in Money and Banking.....	846	1-3	4	...	...	...
Research in Money and Banking.....	847	1-3	5
Research in Economic Theory.....	858	1-3	1	...	...	...
Research in Economic Theory.....	859	1-3	2
Totals.....	239	...	...	1065	...	...	1087	...	...	768
ELECTRICAL ENGINEERING												
Direct Current Equipment.....	601	5	3	601	5	28	...	...	...	601	5	29
Alternating Current Circuits and Equipment.....	605	5	5	605	5	31	605	5	29	...	...	...
Medium and High Frequency Currents.....	611	4	29	611	4	26
Applications, Control and Problems.....	620	3	51
Experience in Practice.....	625	5	42	...	...	...	...	...	...
Electrical Engineering.....	630	5	12	...	...	...
Electrical Engineering.....	635	3	9
Electrical Engineering.....	640	2	22	...	...	...
Electrical Engineering.....	641	5	20
Alternating Current Equipment.....	701	3	25	701	3	29	...	...	...
Alternating Current Equipment.....	702	2	33	702	3	23	...	...	...
Alternating Current Laboratory.....	705	4	25	705	4	27	...	...	...
Alternating Current Laboratory.....	706	4	30	706	4	23	...	...	...
Electrical Railways.....	710	4	22	...	...	...	...	...	...
Wire Telephony and Telegraphy.....	715	4	31	...	...	...	...	...	...
Electrical Illumination.....	720	4	14	...	...	...	...	...	...

Electrical Illumination.....	...	...	...	722	3	7	725	4	27	...	...	...
Radio, Telegraphy and Telephony.....	...	...	...	...	...	...	725	4	27	...	...	...
Advanced Electrical Communication.....	...	...	...	...	...	...	730	4	40	726	4	13
Electrical Design.....	...	...	...	...	...	...	735	3	27	...	...	...
Thesis.....	...	...	...	735	3	3	735	3	27	...	...	...
Thesis.....	...	...	...	736	5	1	736	5	2	736	5	27
Transmission and Distribution.....	...	...	...	...	...	...	...	...	...	740	3	56
Advanced Electrical Engineering Laboratory.....	...	...	...	...	...	...	...	...	...	745	4	43
Special Advanced Reading.....	760	3	1	760	3	1	...	...	...	...	...	...
Special Advanced Laboratory.....	...	...	...	...	...	...	...	...	...	767	3	2
Application of Hyperbolic Functions to Elec- trical Engineering Problems.....	...	...	...	...	...	...	...	...	...	770	3	12
Electrical Engineering.....	...	...	...	775	4	14	...	...	...	...	...	...
Electrical Engineering.....	...	...	...	...	...	...	776	4	20	...	...	...
Engineering Field Problems.....	...	...	...	...	...	...	...	...	...	780	2	13
Communication Engineering.....	...	...	...	785	4	6	...	...	...	...	...	...
Advanced Theoretical Study of Electrical En- gineering Practice and Equipment.....	801	3	3	801	3	3	...	...	...	...	...	...
Advanced Theoretical Study of Electrical En- gineering Practice and Equipment.....	802	5	1	...	...	...	802	5	3	...	...	...
Advanced Laboratory Study of Electrical En- gineering Equipment.....	805	...	3	805	...	1	...	...	...	...	...	...
Advanced Laboratory Study of Electrical En- gineering Equipment.....	...	...	...	...	...	...	806	3	2	...	...	...
Advanced Laboratory Study of Electrical En- gineering Equipment.....	...	...	...	...	...	...	...	...	...	807	...	3
Research Work.....	...	...	...	811	5	2	...	...	...	811	5	1
Research Work.....	...	...	...	...	...	...	812	5	2	...	...	...
Research Work.....	...	...	...	...	...	...	...	...	...	813	5	2
Totals.....	...	...	16	...	...	319	...	...	317	...	...	307
ENGINEERING DRAWING												
Elementary Mechanical Drawing.....	401	4	7	401	4	446	401	4	38	...	...	...
Mechanical Drawing.....	402	4	2	...	...	...	402	4	358	402	4	46
Descriptive Geometry.....	...	...	...	403	4	20	...	...	...	403	4	245
Descriptive Geometry.....	...	...	...	...	...	...	...	...	...	404	4	56
Mechanical Drawing.....	...	...	...	411	4	76	...	...	...	...	...	...
Engineering Drawing.....	...	...	...	...	...	...	412	4	72	...	...	...
Descriptive Geometry.....	...	...	...	...	...	...	...	...	...	413	4	54
Drawing and Sketching.....	...	...	...	414	2	55	...	...	...	...	...	...
Descriptive Geometry.....	...	...	...	...	...	...	...	...	...	415	4	7
Elements of Drawing and Lettering.....	...	...	...	...	...	...	...	...	...	416	2	24
Mechanical Drawing.....	...	...	...	418	3	8	...	...	...	...	...	...
Graphical Processes.....	...	...	...	...	...	...	419	4	4	...	...	...
Mechanical Drawing.....	...	...	...	421	3	53	...	...	...	...	...	...
Machine Drawing.....	...	...	...	...	...	...	422	3	52	...	...	...
Advanced Descriptive Geometry.....	...	...	...	424	4	56	...	...	...	...	...	...
Mechanical Drawing.....	...	...	...	425	2	102	...	...	...	...	...	...
Technical Drawing.....	...	...	...	426	3	38	...	...	...	426	3	19
Elementary Drawing.....	...	...	...	429	3	12	...	...	...	...	...	...
Drawing for Manual Arts Teachers.....	435	5	3	435	5	5
Drawing for Manual Arts Teachers.....	436	5	4	436	5	5

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Projection Drawing.....	...	...	...	437	2	55	...	3	...	437	2	51
House Planning.....	...	...	...	...	...	...	438	3	40	...	...	...
Drawing in Business.....	...	...	...	...	...	...	439	5	24	...	...	...
Chemical Machine Drawing.....	...	...	...	701	2	14	...	2	13	...	...	...
Chemical Plant Layout.....	...	...	...	...	...	...	702	2	13	...	...	14
Chemical Plant Design.....	...	...	...	...	...	940	...	...	606	703	2	516
Totals .....	...	...	16	...	...	...	...	...	...	...	...	...
ENGLISH												
Theme Writing.....	305	2	4	...	...	...	...	...	...	...	...	...
The English Bible.....	329	2	25	...	...	...	...	...	...	...	...	...
Introduction to American Literature.....	333	2	34	...	...	...	...	...	...	...	...	...
Wordsworth and Coleridge.....	340	2	28	...	...	...	...	...	...	...	...	...
Shelley & Keats.....	341	2	13	...	...	...	...	...	...	...	...	...
Tennyson	342	2	24	...	...	...	...	...	...	...	...	...
Browning	343	2	15	...	...	...	...	...	...	...	...	...
Nineteenth Century Prose.....	346	2	13	...	...	...	...	...	...	...	...	...
Eighteenth Century Poetry and Prose.....	351	2	33	...	...	...	...	...	...	...	...	...
Milton	359	2	17	...	...	...	...	...	...	...	...	...
Versification	361	2	10	...	...	...	...	...	...	...	...	...
Shakespeare: Comedies and Romances.....	368	2	19	...	...	...	...	...	...	...	...	...
Later Comedies and Romances.....	369	2	9	...	...	...	...	...	...	...	...	...
Elementary Composition.....	...	...	...	000	3	149	...	...	...	...	...	...
Composition and Reading.....	401	5	49	401	5	810	401	5	583	401	5	626
Theme Writing.....	...	...	...	404	5	14	404	5	23	404	5	38
Theme Writing.....	405	5	29	405	5	42	405	5	38	405	5	85
Advanced Composition.....	...	...	...	...	...	...	407	5	33	...	...	...
English Composition.....	...	...	...	410	3	568	410	3	60	...	...	...
English Composition.....	...	...	...	...	...	...	411	3	460	411	3	61
English Composition.....	...	...	...	412	3	54	...	...	...	412	3	427
Advanced English for Engineers.....	...	...	...	419	3	35	419	3	55	419	3	41
History of the English Language.....	...	...	...	...	...	...	427	3	76	427	3	89
English Words.....	...	...	...	428	3	83	...	...	...	...	...	...
The English Bible.....	429	5	32	429	5	27	429	5	46	429	5	46
Introduction to American Literature.....	433	5	133	433	5	599	433	5	547	433	5	766
Nineteenth Century Poetry.....	441	5	62	441	5	124	433	5	125	433	5	155
Nineteenth Century Poetry.....	442	5	47	442	5	88	442	5	52	442	5	149
Nineteenth Century Prose.....	446	5	33	446	5	87	446	5	71	446	5	129

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Eighteenth Century Poetry and Prose.....	636	5	32	636	5	28	636	5	39
The Essay.....	639	5	35
Literature and Composition.....	...	...	...	...	...	...	643	5	19	...	...	...
Middle English.....	...	...	...	...	...	...	...	...	...	646	3	3
Old English.....	...	...	...	651	3	14	...	...	...	...	...	...
Old English Poetry.....	...	...	...	...	...	...	652	3	6	...	...	...
Chaucer and His Principal Contemporaries and Successors.....	...	...	...	...	...	...	653	5	20	...	...	...
English Medieval Literature to Chaucer.....	...	...	...	654	5	31	...	...	...	...	...	...
The Novel: Richardson to Scott.....	...	...	...	655	5	72	...	...	...	655	5	63
The Novel: Dickens to Meredith.....	...	...	...	...	...	...	656	5	109	...	...	...
Verseification.....	657	5	21	...	...	...	657	5	18	...	...	...
The Short Story.....	658	5	31	658	5	31	...	...	...	...	...	...
Milton and Dryden.....	659	5	23	659	5	30	...	...	...	...	...	...
The Celtic Renaissance.....	...	...	...	...	...	...	...	...	...	664	5	16
Shakespeare: Histories and Tragedies.....	...	...	...	667	5	109	...	...	...	...	...	...
Shakespeare: Comedies and Romances.....	668	5	40	...	...	...	668	5	105	...	...	...
Recent and Contemporary Drama.....	...	...	...	...	...	...	...	...	...	670	5	71
Shakespeare's Contemporaries and Predeces- sors in English Drama.....	...	...	...	...	...	...	...	...	...	672	5	30
History of the Short Narrative in English.....	...	...	...	801	2	18	...	...	...	...	...	...
The Lyric.....	802	2	19	...	...	...	802	2	15	...	...	...
Studies in Criticisms.....	...	...	...	805	2	18	...	...	...	...	...	...
The Later Novel.....	...	...	...	807	2	11	...	...	...	807	2	7
The Later Poetry.....	...	...	...	...	...	...	808	2	14	...	...	...
English and Scottish Popular Ballads.....	...	...	...	...	...	...	...	...	...	809	3	8
English Usage.....	...	...	...	...	...	...	810	3	7	...	...	...
Studies in Seventeenth Century Literature.....	815	5	9	815	5	2	...	...	...	815	5	4
Studies in Poetic Rhythm.....	...	...	...	...	...	...	816	2	4	...	...	...
Studies in Eighteenth Century Literature.....	...	...	...	818	5	4	818	5	11	818	5	6
Discussion of Dissertations.....	819	2-5	7	819	2-5	13	819	2-5	3	819	2-5	4
Discussion of Dissertations.....	...	...	...	...	...	...	820	2-5	23	820	2-5	3
Discussion of Dissertations.....	821	2-5	1	821	2-5	2	...	...	...	821	2-5	19
Totals.....	...	...	812	...	...	3063	...	...	2523	...	...	2918
PUBLIC SPEAKING												
Principles and Practice of Public Speaking...	401	5	37	401	5	91	...	...	...	401	5	116
Debating.....	402	5	6	402	5	13	402	5	55	402	5	10
Advanced Argumentation and Debate.....	...	...	...	407	5	3	...	...	...	407	5	13
Advanced Debate Practice.....	...	...	...	410	5	4	410	5	9	...	...	...
Extempore Speaking.....	...	...	...	...	...	...	414	5	6	...	...	...
The Forms of Public Address.....	...	...	...	625	5	2	...	...	...	625	5	6
Special Problems in Theory of Public Speak- ing.....	...	...	...	...	...	...	...	...	...	651	5	5
Totals.....	...	...	33	...	...	113	...	...	70	...	...	150
FARM CROPS												
Field Crop Production.....	401	5	10	401	5	17	401	5	33	401	5	11
Cereal Crops.....	...	...	...	402	5	4	...	...	...	...	...	...
Forage Crops.....	...	...	...	...	...	...	...	...	...	403	5	10
Special Crops.....	...	...	...	601	3	3	...	...	...	...	...	...
Advanced Grain Grading and Judging.....	605	5	8

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Minor Investigations.....	701	3-15	3	701	3-15	1	701	3-15	1	701	3-15	1
Research in Plant Breeding and Crop Production	801	5-10	1	801	5-10	2	801	5-10	2	801	5-10	2
Seminary .....	...	...	...	802	1	1	...	...	...	802	1	2
Totals .....	...	...	14	...	...	36	...	...	36	...	...	26
FINE ARTS												
Elementary Freehand Drawing.....	321	2	11	...	...	...	...	...	...	...	...	...
Intermediate Design.....	332	2	9	...	...	...	...	...	...	...	...	...
Art Problems for Elementary Teachers.....	370	3	23	...	...	...	...	...	...	...	...	...
Art Problems for Teachers of Arts.....	371	3	6	...	...	...	...	...	...	...	...	...
Freehand Drawing.....	...	...	...	401	2	17	...	...	...	...	...	...
Freehand Drawing.....	...	...	...	...	...	...	402	2	17	...	...	...
Freehand Drawing.....	...	...	...	...	...	...	...	...	...	403	2	20
Advanced Freehand Drawing.....	...	...	...	404	2	14	...	...	...	...	...	...
Advanced Freehand Drawing.....	...	...	...	...	...	...	405	2	12	...	...	...
Water Color Painting.....	...	...	...	...	...	...	...	...	...	407	2	14
Water Color Painting.....	...	...	...	408	2	6	...	...	...	...	...	...
Drawing from Life .....	...	...	...	...	...	...	411	3	7	...	...	...
Drawing from Life .....	...	...	...	...	...	...	...	...	...	412	3	6
Elementary Freehand Drawing.....	421	5	6	421	5	56	421	5	79	421	5	39
Advanced Freehand Drawing.....	...	...	...	423	5	26	421	5	39	421	5	39
Drawing from Life.....	...	...	...	424	5	11	424	5	16	424	5	31
Advanced Life Drawing.....	...	...	...	425	5	5	425	5	9	425	5	12
Elements of Art.....	426	5	6	426	5	46	426	5	49	426	5	44
Elementary Design.....	431	5	5	431	5	7	431	5	18	431	5	17
Intermediate Design.....	...	...	...	432	5	7	432	5	6	...	...	...
Thesis .....	...	...	...	...	...	...	434	5	4	434	5	2
Elements of Art: Advanced.....	...	...	...	436	3	35	436	3	20	436	3	40
Water Color Painting.....	441	5	6	441	5	10	...	...	...	441	5	19
Oil Painting.....	...	...	...	442	5	7	442	5	9	442	5	16
Advanced Oil Painting.....	...	...	...	443	5	1	443	5	6	443	5	4
Advanced Water Color.....	444	5	4	444	5	2	...	...	...	444	5	9
History of Classic Art.....	...	...	...	451	5	34	...	...	...	...	...	...
History of Medieval Art.....	...	...	...	...	...	...	452	5	26	...	...	...
History of Renaissance Art.....	...	...	...	...	...	...	...	...	...	453	5	34
Modern Painting and Sculpture.....	...	...	...	...	...	...	...	...	...	454	5	42
Modelling .....	...	...	...	461	5	2	461	5	10	461	5	9

Advanced Modelling.....	...	...	...	462	5	1	461	5	1	461	5	2
Technical Problems.....	...	...	...	465	3-5	5	465	3-5	2	465	3-5	9
Technical Problems.....	...	...	...	...	...	...	466	3-5	8	466	3-5	2
Technical Problems.....	...	...	...	...	...	...	467	3-5	1	467	3-5	4
Art Problems for Elementary Teachers.....	...	...	...	470	5	1	...	...	...	...	...	...
Theory and Practice of Teaching Art.....	...	...	...	471	5	14	...	...	...	...	...	...
Appreciation of Art.....	475	1	38	...	...	...	...	...	...	...	...	...
Appreciation of Plastic Arts.....	...	...	...	476	1	85	...	...	...	...	...	...
Appreciation of Pictorial Arts.....	...	...	...	...	...	...	477	1	167	...	...	...
Appreciation of Popular Arts.....	...	...	...	...	...	...	...	...	...	478	1	165
History of the Seventeenth Century Art.....	...	...	...	...	...	...	655	5	4	...	...	...
Proseminary.....	...	...	...	657	5	1	657	5	1	657	5	1
Proseminary.....	...	...	...	...	...	...	658	5	3	658	5	1
Proseminary.....	...	...	...	...	...	...	...	...	...	659	5	2
Advanced Technical Problems.....	...	...	...	661	3-5	3	...	...	...	661	3-5	1
Advanced Technical Problems.....	...	...	...	...	...	...	662	3-5	5	...	...	...
Advanced Technical Problems.....	...	...	...	...	...	...	...	...	...	663	3-5	3
Major Problems.....	...	...	...	801	3-5	1	...	...	...	...	...	...
Major Problems.....	...	...	...	...	...	...	...	...	...	803	3-5	1
Dissertation.....	...	...	...	...	...	...	...	...	...	...	5	1
Totals.....	...	...	114	...	...	397	...	...	519	...	...	589
GEOGRAPHY												
Principles of Geography.....	401	5	94	401	5	308	401	5	165	401	5	179
Principles of Social Geography.....	...	...	...	402	5	194	402	5	99	402	5	151
Economic Geography.....	403	5	17	403	5	94	403	5	201	403	5	130
Climatology.....	...	...	...	411	4	2	...	...	...	...	...	...
Historical Geography and Commerce of U. S.....	601	3	11	601	3	62	...	...	...	601	3	74
Localization of Manufacturing Industries of U. S.....	...	...	...	...	...	...	...	...	...	603	4	25
Conservation of National Resources.....	...	...	...	604	2	27	...	...	...	...	...	...
Economic and Social Geography of Europe.....	...	...	...	621	3	25	...	...	...	...	...	...
Political Geography of South America.....	...	...	...	623	3	31	...	...	...	...	...	...
Caribbean Region and Panama Canal.....	...	...	...	...	...	...	624	3	26	...	...	...
Geography and History of Commerce.....	631	3	17	...	...	...	...	...	...	631	3	101
World Industries.....	...	...	...	632	3	11	...	...	...	...	...	...
World Commerce.....	...	...	...	...	...	...	633	3	15	...	...	...
Trade Centers and Trade Routes.....	...	...	...	...	...	...	634	3	47	634	3	59
Field Work in Geography and Commerce.....	641	1-3	3	641	1-3	3	...	...	...	641	1-3	8
Geographic Factors in Civilization.....	...	...	...	...	...	...	661	3	8	...	...	...
Research in Geography and Commerce.....	801	1-3	2	801	1-3	1	...	...	...	801	1-3	1
Seminary in Geography and Commerce.....	...	...	...	805	2	3	...	...	...	...	...	...
Seminary in Geography and Commerce.....	...	...	...	...	...	...	806	2	1	...	...	...
Seminary in Geography and Commerce.....	...	...	...	...	...	...	...	...	...	807	2	1
Totals.....	...	...	132	...	...	761	...	...	562	...	...	729
GEOLOGY												
General Geology.....	...	...	...	401	5	285	401	5	99	401	5	85
General Geology.....	...	...	...	402	5	66	402	5	197	402	5	89
Glacial Geology.....	404	5	12
Structural and Dynamical Geology.....	406	5	13
Historical Geology.....	407	5	11

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Physiography	415	5	10	...	...	...	...	...	...
Meteorology	420	5	13
Agricultural Geology	430	5	45	...	...	...	430	5	104
Engineering Geology	435	5	62	435	5	56	...	...	...
Historical Geology for Engineers	437	3	3	...	...	...
Advanced Paleontology	602	3 or 4	2	...	...	...
Advanced Paleontology	603	3 or 4	2
Economic Geology	605	3	8	...	...	...	...	...	...
Economic Geology	606	3	9	...	...	...
Economic Geology	607	3	7
Stratigraphic Geology of Ohio	608	5	5	...	...	...	...	...	...
Physiography of the U. S.	610	5	8	...	...	...
Special Problems	612	3-5	4
Geological Surveying	615	5	3
Clays	616	5	9	...	...	...
Principles of Sedimentation and Stratigraphy	618	5	5
Introductory Paleontology	620	3	5	...	...	...	...	...	...
Introductory Paleontology	622	3	5	622	3	5
Advanced Historical Geology	801	3	2	...	...	...	...	...	...
Advanced Historical Geology	802	3	4	...	...	...
Advanced Historical Geology	803	3	4
Research Work	804	3-5	2	...	...	...	...	...	...
Research Work	805	3-5	2	...	...	...
Research Work	806	3-5	2
Totals	490	...	...	407	...	...	346
GERMAN												
Elementary German	401	5	30	401	5	276	401	5	139	401	5	101
Elementary German	402	5	17	402	5	50	402	5	195	402	5	114
Intermediate German	403	5	20	403	5	42	403	5	27	403	5	142
Easy Classical Reading	404	5	10	404	5	56	404	5	19	...	...	...
Science Reading	406	5	8	406	5	32
Advanced German	411	5	10	...	...	...	...	...	...
Advanced German	421	5	4	...	...	...	...	...	...	...	...	...
Schiller	422	5	14
Modern Novel	431	5	17	...	...	...
Readings in Technical and Critical German Literature	476	3	2	476	3	6	...	...	...	...	...	...

Readings in Technical and Critical German Literature	...	...	...	...	...	...	477	3	2	...	...	...
Proseminary—18th and 19th Century Literature	612	3	3	...	...	...	...	...	...	...	...	...
Proseminary—18th and 19th Century Literature	...	...	...	...	...	...	621	3	4	...	...	...
Heinrich Heine—Life and Works	...	...	...	631	3	5	...	...	...	...	...	...
Hibbel	...	...	...	...	...	...	675	3	4	632	3	11
The German Language	...	...	...	...	...	...	...	...	...	...	...	...
Advanced Composition	...	...	...	...	...	...	...	...	...	685	3	3
Minor Investigation	695	3	4	695	3	3	...	...	...	...	...	...
Seminary in German Literature	...	...	...	855	3	4	...	...	...	...	...	...
Seminary in German Literature	...	...	...	...	...	...	856	3	6	...	...	...
Seminary in German Literature	...	...	...	...	...	...	...	...	...	857	3	4
Totals	...	...	90	...	...	452	...	...	421	...	...	421
GREEK LANGUAGE AND LITERATURE												
Elementary Greek	401	5	9	401	5	13	...	...	...	...	...	...
Elementary Greek	...	...	...	...	...	...	402	5	10	...	...	...
Plato	...	...	...	...	...	...	...	...	...	403	5	5
Homer	...	...	...	404	5	2	...	...	...	...	...	...
Private Reading and Minor Problems	...	...	...	610	2-5	1	610	2-5	3	610	2-5	1
Greek Art	...	...	...	650	3	8	...	...	...	...	...	...
Greek Art	652	3	10	...	...	...	...	...	...	652	3	12
Principles of Historical Study of Language	701	3	21	...	...	...	...	...	...	701	3	7
Historical Grammar	...	...	...	720	3	2	...	...	...	...	...	...
Thesis	...	...	...	...	...	1	...	...	...	...	...	...
Totals	...	...	40	...	...	27	...	...	13	...	...	25
HISTORY												
History of U. S. (1763-1850)	303	3	17	...	...	...	...	...	...	...	...	...
Modern European History to 1789	401	5	43	401	5	593	401	5	289	401	5	223
Modern Europe Since 1789	402	5	26	402	5	123	402	5	432	402	5	230
History of the U. S. (1763-1850)	...	...	...	403	5	257	403	5	108	403	5	84
History of the U. S. (1850-1925)	...	...	...	...	...	...	404	5	152	404	5	77
General Survey of U. S. History (1763-1850)	405	5	42	405	5	122	405	5	61	405	5	69
History of the U. S. (1850-1925)	406	5	24	406	5	113	406	5	113	406	5	67
Ancient History	...	...	...	411	3	28	...	...	...	...	...	...
Greek History	...	...	...	...	...	...	412	5	35	...	...	...
Roman History	413	5	21	...	...	...	...	...	...	413	5	36
Europe in the Middle Ages to 1100 A. D.	...	...	...	414	3	21	...	...	...	...	...	...
Europe in Middle Ages from 1100 A. D.	...	...	...	...	...	...	415	3	8	...	...	...
History of the Christian Church to the Protestant Reformation	...	...	...	...	...	...	...	...	...	416	5	33
English History to 1603 A. D.	...	...	...	421	5	58	...	...	...	...	...	...
England Since 1603	422	5	22	...	...	...	422	5	70	...	...	...
Europe 1815-1878	...	...	...	423	3	56	...	...	...	...	...	...
Europe from 1878 to 1919	424	5	22	...	...	...	424	5	67	...	...	...
History of the Far East	...	...	...	426	3	23	...	...	...	...	...	...
Political Parties in the U. S.	431	5	16	431	5	17	...	...	...	431	5	24
Leading Characters in American History	432	5	24
The Struggle for North America	433	5	47

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Colonial Period of Latin America.....	...	...	...	...	...	...	434	5	7	...	...	...
History of Latin-American Republics.....	435	5	33	...	...	...	...	...	...	435	5	31
History of Canada.....	...	...	...	436	5	23	...	...	...	...	...	...
History of Ohio.....	...	...	...	...	...	...	437	3	41	...	...	...
Introduction to Historical Research.....	601	3	30	601	3	16	...	...	...	...	...	...
Hellenic Civilization.....	...	...	...	...	...	...	...	...	...	602	3	9
French Civilization in the Middle Ages.....	...	...	...	...	...	...	...	...	...	604	3	9
Age of Renaissance.....	...	...	...	607	3	17	...	...	...	...	...	...
The Period of the Reformation.....	...	...	...	...	...	...	608	3	13	...	...	...
Constitutional History of England to 1485....	...	...	...	611	3	11	...	...	...	...	...	...
Constitutional History of England since 1485..	...	...	...	...	...	...	612	3	9	...	...	...
England in the Tudor Period.....	613	3	37	...	...	...	...	...	...	...	...	...
England from the Reform Bill of 1832 to 1867..	...	...	...	...	...	...	615	3	10	...	...	...
England Since 1867.....	...	...	...	...	...	...	...	...	...	616	3	36
Expansion of Europe.....	...	...	...	621	3	32	...	...	...	...	...	...
Expansion of Europe to 1815.....	622	3	34	...	...	...	622	3	28	...	...	...
The French Revolution and Napoleon.....	...	...	...	...	...	...	...	...	...	624	3	36
Diplomatic History of the Far East.....	...	...	...	...	...	...	627	3	13	...	...	...
Recent and Contemporary European History (1919-1926).....	628	5	52	...	...	...	...	...	...	...	...	...
Constitutional History of the U. S.....	...	...	...	631	3	17	...	...	...	...	...	...
Constitutional History Since 1837.....	...	...	...	...	...	...	632	3	19	...	...	...
The Slavery Controversy.....	...	...	...	633	3	15	...	...	...	...	...	...
Reconstruction of the New South (1863-1925)	...	...	...	...	...	...	634	3	9	...	...	...
American Diplomacy Since the Civil War....	636	3	21	...	...	...	...	...	...	...	...	...
Recent History of the U. S. (1875-1900)....	...	...	...	637	5	39	...	...	...	637	5	32
Recent History of the U. S. (1900-1926)....	638	5	43	...	...	...	638	5	49	...	...	...
The Influence of Racial Groups on U. S. History.....	...	...	...	...	...	...	...	...	...	639	5	36
The Pioneer in American History to 1812....	640	5	23	640	5	16	...	...	...	...	...	...
The Pioneer in American History Since 1812..	...	...	...	...	...	...	641	5	10	...	...	...
International Relations of Latin America....	...	...	...	...	...	...	...	...	...	642	5	12
The Great Historians of the Nineteenth Cen- tury.....	...	...	...	...	...	...	651	3	12	...	...	...
The Great Historians of the Nineteenth Cen- tury.....	...	...	...	...	...	...	...	...	...	...	...	...
Seminary in European History.....	801	3	12	801	3	2	...	...	...	652	3	8
Seminary in American History.....	...	...	...	802	3	8	...	...	...	...	...	...

Seminary in American History.....	...	...	...	...	...	803	3	18	...	...	...
Seminary in American History.....	...	...	...	...	...	...	...	...	804	3	6
Seminary in American History.....	805	3	14	...	...	...	...	...	...	...	...
Seminary in European History.....	...	...	...	806	2-5	7	...	...	...	...	...
Seminary in European History.....	...	...	...	...	...	...	807	3	20	807	3
Seminary in European History.....	...	...	...	...	...	...	...	...	808	3	13
Thesis .....	...	3	3	...	...	...	...	3	15	...	5
Totals .....	...	...	535	...	1614	...	...	...	1693	...	1133

HISTORY OF EDUCATION

Educational Classics.....	350	2	9	...	...	...	...	...	...	...	...
Educational Classics.....	351	2	17	...	...	...	...	...	...	...	...
History of Elementary Education.....	...	...	...	...	...	401	5	40	...	...	...
History of Pre-Renaissance Education.....	403	3	17	403	3	19	403	3	12	...	...
History of Modern Education I.....	404	3	174	404	3	198	404	3	61	404	3
History of Modern Education II.....	405	3	152	405	3	53	405	3	151	405	3
Educational Classics.....	...	...	...	601	4	19	...	...	...	...	...
Educational Classics.....	...	...	...	...	...	...	...	...	...	...	...
History of Education in the U. S.....	605	2	29	...	...	...	605	2	45	602	4
History of Education in the U. S.....	...	...	...	...	...	...	...	...	...	606	2
Story of Industrial Education.....	607	2	10	...	...	...	607	2	13	...	14
Present Day Problems in Education.....	...	...	...	...	...	...	...	...	...	610	2
History of Education in Ohio.....	...	...	...	...	...	...	...	...	...	611	2
Comparative Education.....	...	...	...	613	2	26	...	...	...	...	12
Comparative Education.....	614	2	4	...	...	...	...	...	...	614	2
History of Method.....	615	2	10	...	...	...	...	...	...	...	8
Seminary in the History of Education.....	801	2-5	4	...	...	...	...	...	...	...	...
Seminary in the History of Education.....	...	...	...	...	...	...	...	...	...	...	...
Research in the History of Education.....	...	...	...	...	...	810	3-5	3	...	802	2-5
Research in the History of Education.....	...	...	...	...	...	...	...	...	...	811	3-5
Totals .....	...	...	426	...	315	...	...	...	325	...	251

HOME ECONOMICS

Textiles and Clothing.....	...	...	...	401	5	133	401	5	24	...	...
Textiles and Clothing.....	...	...	...	...	...	...	402	5	61	402	5
Dress	403	5	16	403	5	28	403	5	27	403	5
Elements of Nutrition and Food Preparation.....	410	5	14	...	...	...	410	5	12	...	12
Foods .....	...	...	...	411	5	50	411	5	22	411	5
Foods .....	...	...	...	412	5	27	412	5	42	412	5
Elements of Homemaking.....	...	...	...	...	...	...	...	...	...	418	5
Advanced Dress.....	...	...	...	501	5	13	...	...	...	501	5
Millinery .....	...	...	...	502	3	16	...	...	...	502	3
Sanitation .....	...	...	...	511	3	18	581	3	36	...	...
House Furnishing.....	...	...	...	512	5	18	512	5	26	512	5
Dietaries .....	...	...	...	609	1	24	...	...	...	...	...
Nutrition	611	5	22	611	5	28	611	5	24	611	5
Advanced Nutrition.....	...	...	...	...	...	...	...	...	...	612	5
Household Management.....	...	...	...	617	5	18	617	5	40	617	5
Purchase of Clothing and Household Furnishings.....	...	...	...	618	5	16	...	...	...	...	...
Child Care.....	621	5	17	621	5	31	621	5
Purchase of Foods for Institutions.....	630	5	6

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Institution Management.....	631	5	7	...	...	...
Institution Management.....	632	5	7
School Lunchroom Management.....	633	3	12	...	...	...	...	...	...	633	3	20
Home Economics Teaching.....	641	5	19	641	5	40	641	5	16
Supervised Home Economic Teaching.....	642	5	7	642	5	14	642	5	29
Special Problems in Home Economics.....	701	3-15	8	701	3-15	10	701	3-15	14	701	3-15	13
Special Problems in Home Economics.....	701A	3	17	...	...	...	...	...	...	...	...	...
Advanced Special Problems in Home Economics	801	3-15	1	...	...	...	...	...	...	801	3-15	1
Survey	1	96
Thesis	5	1	...	...	...	...	...	...	...	5	1
Totals	91	...	...	448	...	...	420	...	...	494
HORTICULTURE AND FORESTRY												
Principles of Horticulture.....	401	5	23	...	...	...	...	...	...
Small Fruits and Grapes.....	402	5	4
Pomology	403	5	7	...	...	...	403	5	4
Pomology	404	5	10	...	...	...
Farm Horticulture.....	405	5	51	405	5	37	405	5	31
Commercial Vegetable Gardening.....	422	5	1
Horticulture Products.....	423	3	6	...	...	...	...	...	...
Greenhouse Construction, Equipment, and
Management	424	3	4	...	...	...
Vegetable Forcing.....	426	3	1
Special Truck Crops.....	428	3	2	...	...	...
Amateur Floriculture.....	441	3	8	...	...	...
Commercial Floriculture.....	442	5	4	...	...	...	...	...	...
Commercial Floreculture.....	443	5	6	...	...	...
Garden Flowers.....	444	5	10	...	...	...	...	...	...
Garden Flowers.....	445	5	13
The Flower Shop.....	446	3	4
Conservatory Plants.....	447	3	1
The Nursery.....	448	5	4	...	...	...	...	...	...
Farm Woodlot.....	451	5	3	...	...	...	451	5	2
Arboriculture and Ornamental Planting.....	452	5	5	...	...	...	...	...	...
Lumber	454	5	1	...	...	...
Principles of Forestry.....	455	5	4	...	...	...	...	...	...
Timber Physics.....	457	5	48
General Forestry.....	458	5	1	...	...	...

Development of Forestry and Conservation.....	...	...	...	...	...	460	5	3	...	...	...
Elementary Landscape Architecture.....	...	...	...	...	...	500	3	14	...	...	...
Landscape Architecture (Design).....	...	...	513	3	14	...	...	...	...	...	...
Landscape Architecture (Design).....	...	...	...	...	...	514	3	16	...	...	...
Landscape Architecture (Design).....	...	...	515	3	1	...	...	...	515	3	15
Landscape Architecture (Design).....	...	...	516	3	6	...	...	...	...	...	...
Landscape Architecture (Design).....	...	...	...	...	...	517	5	8	...	...	...
Landscape Architecture (Design).....	...	...	...	...	...	...	...	...	518	5	5
Landscape Architecture (Design).....	...	...	519	5	5	...	...	...	...	...	...
Landscape Architecture (Design).....	...	...	...	...	...	520	8	5	...	...	...
Landscape Architecture (Civic Design).....	...	...	...	...	...	...	...	...	521	8	4
Landscape Architecture (Civic Design).....	...	...	...	...	...	531	2	7	...	...	...
History of Landscape Architecture.....	...	...	...	...	...	...	...	...	532	5	5
History of Landscape Architecture.....	...	...	...	...	...	540	2	9	...	...	...
Plant Materials.....	...	...	...	...	...	...	...	...	541	3	9
Plant Materials.....	...	...	...	...	...	...	...	...	550	3	17
Plant Materials.....	...	...	552	3	5	551	3	6	...	...	...
Planting Design.....	...	...	...	...	...	555	5	5	...	...	...
Construction.....	...	...	...	...	...	560	5	10	...	...	...
Horticulture Plant Breeding.....	...	...	...	...	...	601	3	4	...	...	...
Experimental Horticulture.....	...	...	602	3	2	...	...	...	...	...	...
Systematic Pomology.....	...	...	604	5	2	...	...	...	...	...	...
Literature of Horticulture.....	...	...	...	...	...	605	5	2	...	...	...
Advanced Pomology.....	...	...	...	...	...	...	...	...	606	5	1
Minor Investigations in Forestry.....	...	...	...	...	...	651	3-5	1	651	3-5	2
Minor Investigations in Forestry.....	...	...	701	3-15	17	701	3-15	6	701	3-15	3
Research.....	...	...	801	5-10	2	801	5-10	1	...	...	...
*Commercial Vegetable Gardening.....	...	...	421	5	3	...	...	...	...	...	...
Totals.....	...	...	...	...	174	...	...	166	...	...	170

INDUSTRIAL EDUCATION

Elementary Woodwork.....	401	3	20	401	3	7	...	...	...	...	...
Industrial Arts for Elementary Teachers.....	402	3	8	...	...	...	...	...	402	3	5
Woodturning and Pattern Making.....	501	3	8	...	...	...	501	3	7	...	...
Advanced Woodturning and Patternmaking...	502	3	3	...	...	...	...	...	502	3	7
Cabinet Making.....	503	3	8	...	...	...	503	3	5	...	...
Advanced Cabinet Making.....	504	3	12	...	...	...	...	...	504	3	7
Craftwork for Women.....	...	...	...	507	3	1	507	3	5	...	...
Craftwork for Women.....	...	...	...	...	...	...	508	3	1	...	...
Shopwork Related to the Farm.....	510	5	9	...	...	...	510	5	12	...	...
Constructive Design.....	521	3	5	521	3	9	...	...	...	...	...
Advanced Constructive Design.....	522	3	2	...	...	...	522	3	10	...	...
Teaching of Industrial Education.....	523	3	10	...	...	...	...	...	523	3	7
Materials and Methods.....	524	3	11	524	3	6	...	...	...	...	...
Shop Planning and Equipment.....	525	3	7	525	3	6	...	...	...	...	...
Drawing and Project Design.....	602	3	1	...	...	...	...	...	602	3	3
Planning and Equipping the Unit and General Shop.....	603	2	1	603	2	1
Occupational Studies in Junior and Senior High Schools.....	610	3	11

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Organization and Supervision of Manual and Industrial Arts.....	626	2	9	621	3	1	626	2	18	626	2	10
Special Problems in Industrial Education.....	650	1	13	650	1	1	650	1	5	650	1	5
Minor Problems in Industrial Education.....	801	2	1	801	2	1	802	2	1	803	2	1
Seminary .....	...	...	...	...	...	...	...	...	...	...	...	...
Seminary .....	...	...	...	...	...	...	...	...	...	...	...	...
Seminary .....	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	...	...	188	...	...	55	...	...	64	...	...	46
INDUSTRIAL ENGINEERING												
Foundry Work.....	...	...	...	405	3	30	405	3	31	405	3	11
Advanced Foundry Practice.....	...	...	...	...	...	...	...	...	...	406	2	16
Metal Bench Work.....	...	...	...	407	2	45	407	2	17	407	2	11
Metal Bench Work.....	...	...	...	408	2	2	408	2	33	408	2	9
Patternmaking	411	3	72	411	3	46	411	3	42	411	3	26
Advanced Pattern Making.....	...	...	...	412	2	1	...	...	...	412	2	2
Forging	415	2	20	415	3	39	415	3	19	...	...	...
Forging and Sheet Metal Work.....	416	3	48	416	3	35	416	3	14	416	3	22
Advanced Heat Treating.....	...	...	...	417	1	1	...	...	...	...	...	...
Elementary Machine Work.....	419	3	26	419	3	74	419	3	42	419	3	32
Advanced Machine Work.....	421	3	23	421	3	19	421	3	62	421	3	35
Engineering Organization.....	...	...	...	601	4	19	...	...	...	...	...	...
Advanced Pattern Making.....	...	...	...	...	...	...	...	...	...	603	3	27
Advanced Machine Work.....	...	...	...	623	3	1	623	3	11	623	3	3
Work Analysis Laboratory.....	...	...	...	...	...	...	...	...	...	653	2	14
Selection Manufacturing Equipment.....	...	...	...	701	3	2	...	...	...	...	...	...
Work Routing.....	...	...	...	...	...	...	702	4	4	...	...	...
Standardization and Simplification.....	...	...	...	...	...	...	...	...	...	703	3	18
Inspection and Waste Elimination.....	...	...	...	...	...	...	...	...	...	705	2	13
Industrial Engineering.....	...	...	...	...	...	...	712	3	30	712	3	50
Industrial Engineering.....	...	...	...	...	...	...	713	3	18	...	...	...
Tool and Jig Design.....	...	...	...	751	3	2	...	...	...	...	...	...
Work Routing Laboratory.....	...	...	...	...	...	...	752	3	2	...	...	...
Thesis .....	...	...	...	...	...	...	...	...	...	754	3-6	2
Totals .....	...	...	189	...	...	316	...	...	325	...	...	291
JOURNALISM												
News Collecting and News Writing.....	401	5	8	401	5	71	401	5	37	401	5	38

New Collecting and News Writing.....	402	5	5	402	5	13	402	5	49	402	5	28
Agricultural Journalism.....	...	...	...	407	3	21	...	...	...	403	3	22
Agricultural Journalism.....	...	...	...	...	...	...	408	3	11	...	...	...
Copy Reading.....	501	3	3	501	3	15	...	...	...	501	3	42
Feature Writing.....	502	3	4	...	...	...	502	3	53	...	...	...
Newspaper Ethics and Principles.....	513	3	6	...	...	...	513	3	47	...	...	...
Newspaper Law.....	...	...	...	514	3	17	...	...	...	514	3	24
Newspaper History and Comparative Journal- ism.....	517	5	8	...	...	...	517	5	42	...	...	...
Newspaper Organization.....	...	...	...	518	5	35	...	...	...	518	5	15
The Community Paper, Weekly and Daily....	...	...	...	...	...	...	525	3	15	...	...	...
The Newspaper Business Office.....	...	...	...	526	3	18	...	...	...	526	3	29
Newspaper Problems.....	...	...	...	607	2	28	...	...	...	607	2	14
Newspaper Problems.....	608	2	2	...	...	...	608	2	37	...	...	...
Editorial Writing.....	...	...	...	621	3	25	...	...	...	621	3	18
Public Opinion in the Making.....	...	...	...	...	...	...	622	3	40	...	...	...
The Newspaper as a Force in Human Progress	...	...	...	802	2	1	...	...	...	...	...	...
The Newspaper as a Force in Human Progress	...	...	...	...	...	...	803	2	1	...	...	...
Journalism Seminary.....	808	2	2	808	2	1	...	...	...	...	...	...
Totals.....	...	...	38	...	...	245	...	...	332	...	...	230
LATIN												
Elementary Latin.....	...	...	...	401	5	56	...	...	...	...	...	...
Elementary Latin and Caesar.....	...	...	...	...	...	...	402	5	33	...	...	...
Caesar.....	...	...	...	...	...	...	...	...	...	403	5	16
Cicero, Orations.....	...	...	...	404	5	19	...	...	...	...	...	...
Virgil.....	...	...	...	...	...	...	405	5	9	...	...	...
Cicero, Horce and Avid.....	...	...	...	406	5	54	...	...	...	...	...	...
Horace, Livy and Gellius.....	...	...	...	...	...	...	407	5	37	...	...	...
Latin Comedy.....	...	...	...	...	...	...	...	...	...	408	5	24
Medical Latin.....	...	...	...	...	...	...	...	...	...	410	3	25
Catullus, Pling, Tacitus.....	601	3	7	601	3	14	...	...	...	...	...	...
Advanced Reading.....	...	...	...	...	...	...	...	...	...	603	3	9
Advanced Reading.....	...	...	...	...	...	...	604	3	15	...	...	...
Legal Latin.....	...	...	...	...	...	...	...	...	...	605	3	2
Comparative Literature.....	...	...	...	...	...	...	...	...	...	606	3	14
Roman Private Life.....	...	...	...	607	3	20	...	...	...	...	...	...
Roman Art and Archaeology.....	...	...	...	...	...	...	608	3	18	...	...	...
Historical Latin Grammar: Inflections.....	...	...	...	...	...	...	609	3	5	...	...	...
Roman Public Life.....	...	...	...	...	...	...	...	...	...	611	3	1
Latin Prose Composition.....	...	...	...	...	...	...	612	3	10	...	...	...
Latin Prose Composition.....	613	3	8	...	...	...	...	...	...	613	3	9
Proseminary I.....	...	...	...	...	...	...	615	3	13	...	...	...
Proseminary II.....	616	3	11	...	...	...	...	...	...	616	3	12
Roman Elegy.....	...	...	...	620	3	6	...	...	...	...	...	...
Advanced Reading Course in Tacitus.....	...	...	...	...	...	...	...	...	...	624	3	6
Paleography.....	...	...	...	626	3	4	...	...	...	...	...	...
Vulgar Latin.....	...	...	...	...	...	...	627	3	6	...	...	...
History of Literary Tradition.....	629	...	13	...	...	...	...	...	...	...	...	...
Seminary in Latin Lyric.....	...	...	...	804	3-10	1	...	...	...	...	...	...
Seminary in Latin Lyric.....	805	3-10	3
Seminary in Latin Lyric.....	806	3	5
Totals.....	39	174	149	123

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
LAW												
Bibliography	1	128
Mortgages and Suretyship	4	115	...	4	82
Partnership	3	85
Sales	4	132
Private Corporations	3	69	...	2	49
Damages	3	3
Contracts	3	145	...	...	142	...	3	129
Practice I	3	64	...	...	...
Practice II	4	65
Property I	3	150	...	...	139	...	3	126
Torts	3	150	...	...	142	...	3	118
Constitutional Law	4	70	...	...	75	...	4	65
Equity I	4	94	...	...	...	...	4	128
Equity II	3	88	...	...	...
Equity III	3	81	...	...	...	...	...	...
Conflict of Laws	3	51
Future Interests	4	40	...	...	...	...	...	...
Criminal Law	3	147	...	2	134	...	...	...
Quasi Contracts	3	94	...	...	...	...	...	...
Wills and Administration of Estates	3	87	...	...	...	...	...	...
Common Law Actions	3	151	...	...	...	...	...	...
Code Pleading	4	92	...	...	...	...	...	...
Agency	3	135	...	...	...
Trusts	4	71	...	...	...
Titles	4	92	...	...	...
Negotiable Instruments	4	85	...	...	...	...	...	...
Totals	1386	...	...	1266	...	...	1161
MATHEMATICS												
Sub-Freshman Mathematics	400	3	155	...	...	...	...	...	...
Mathematics for Students of Agriculture	407	5	104	407	5	63	407	5	14
College Algebra	421	5	225	421	5	91	...	...	...
Plane Trigonometry	422	5	85	422	5	56
Analytic Geometry	423	5	36
Mathematics of Finance	429	5	31	429	5	49	429	5	52
Mathematics of Insurance	430	5	7
Plane Trigonometry	431	5	29	431	5	460	431	5	230	...	...	...

College Algebra.....	433	5	46	433	5	99	432	5	339	432	5	273
Analytic Geometry.....	441	5	20	441	5	289	441	5	133	433	5	256
Calculus.....	...	...	...	442	5	40	442	5	230	442	5	114
Calculus.....	...	...	...	443	5	78	443	5	50	443	5	224
Advanced Calculus.....	601	5	14	601	5	27	...	...	...	...	...	...
Introduction to the Theory of Functions of a Complex Variable.....	...	...	...	...	...	...	607	5	14	...	...	...
Differential Equations.....	611	5	8	...	...	...	611	5	27	...	...	...
Differential Equations.....	...	...	...	...	...	...	...	...	...	612	5	5
Introduction to Modern Mathematics.....	617	5	11	...	...	...	...	...	...	...	...	...
Advanced Euclidian Geometry.....	621	5	8	...	...	...	621	5	19	...	...	...
Projective Geometry.....	...	...	...	...	...	...	...	...	...	623	5	11
Elementary Theory of Equations.....	...	...	...	641	5	12	...	...	...	...	...	...
Vector Analysis.....	...	...	...	...	...	...	...	...	...	661	5	13
Probability.....	...	...	...	691	5	2	...	...	...	...	...	...
Finite Differences.....	...	...	...	692	5	4	...	...	...	...	...	...
Actuarial Theory.....	...	...	...	...	...	...	...	...	...	693	5	1
Seminary in Mathematics.....	800	3-5	6	...	...	...	800	3-5	2	800	3-5	2
Reading and Research.....	801	3-10	1	801	3-10	2	810	3-10	1	810	3-10	2
Functions of a Real Variable.....	...	...	...	...	...	...	...	...	...	805	5	9
Point-Sets.....	812	5	5	...	...	...	...	...	...	...	...	...
Introduction to Higher Algebra.....	...	...	...	851	5	8	...	...	...	...	...	...
Algebraic Invariants.....	...	...	...	...	...	...	852	5	6	...	...	...
Differential Invariants.....	...	...	...	...	...	...	...	...	...	853	5	4
Fourier's Series and Spherical Harmonics.....	861	5	6	861	5	4	...	...	...	...	...	...
Totals.....	...	...	154	...	...	1540	...	...	1339	...	...	879
MECHANICAL ENGINEERING												
Heat Power Engineering.....	409	3	4	...	...	...	...	...	...	409	3	84
Materials of Engineering.....	427	3	4	...	...	...	...	...	...	427	3	61
Practical Experience in a Mechanical Engi- neering Industry.....	...	...	...	439	5	29	...	...	...	...	...	...
Heat Engines.....	...	...	...	507	4	16	507	4	9	...	...	...
Heat Engines.....	...	...	...	509	3	60	...	...	...	...	...	...
Machine Design.....	...	...	...	...	...	...	514	4	57	...	...	...
Machine Design.....	...	...	...	...	...	...	...	...	...	515	5	53
Mechanical Engineering Laboratory.....	531	2	2	531	2	56	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	532	2	57	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	...	...	...	533	2	53
Heating and Ventilating.....	...	...	...	551	2	24	...	...	...	...	...	...
Power, Generation and Transmission.....	...	...	...	560	5	23	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	572	3	9	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	573	5	37	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	574	3	32	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	591	5	8	...	...	...	...	...	...
Heating and Ventilating.....	...	...	...	...	...	...	...	...	...	605	4	40
Steam Engineering.....	...	...	...	607	5	44	...	...	...	...	...	...
Steam Engineering.....	...	...	...	...	...	...	608	5	41	...	...	...
Steam Engineering.....	...	...	...	...	...	...	...	...	...	609	3	38
Mechanism.....	...	...	...	614	4	40	...	...	...	...	...	...
Mechanism Drawing.....	...	...	...	...	...	...	616	2	38	...	...	...

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Gas Engines and Producers.....	625	3	35
Inspection Trip to the West.....	630	...	31
A. S. M. E. Student—Branch Meetings.....	651	½	48	...	...	...	...	...	...
A. S. M. E. Student—Branch Meetings.....	652	½	47	...	...	...
A. S. M. E. Student—Branch Meetings.....	653	½	49
Mechanical Engineering Laboratory.....	664	3	34	...	...	...
Mechanical Engineering Laboratory.....	665	3	38
Automotive Engineering.....	704	3	11	...	...	...
Automotive Engineering.....	705	3	9
Air Compressing and Refrigerating Machinery.....	715	3	7	...	...	...	...	...	...
Machine Design.....	727	5	33	...	...	...	...	...	...
Machine Design.....	728	5	29	...	...	...
Inspection Trip to the East.....	730	...	21
Hydraulic Machinery.....	742	3	15	...	...	...	...	...	...
Machine Design.....	744	5	29
Steam Turbines.....	746	3	4	...	...	...
Special Design.....	747	3	1	...	...	...
Thesis Work.....	748	3-5	2	748	3-5	4
A. S. M. E. Student—Branch Meetings.....	751	½	20	...	...	...	...	...	...
A. S. M. E. Student—Branch Meetings.....	752	½	21	...	...	...
A. S. M. E. Student—Branch Meetings.....	753	½	18
Hydraulic Power.....	754	3	7	...	...	...
Mechanical Engineering Laboratory.....	779	3	21	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	780	3	10	...	...	...
Mechanical Engineering Laboratory.....	781	3	7
Automotive Engineering Laboratory.....	782	3	12	...	...	...
Automotive Engineering Laboratory.....	783	3	11
Hydraulic Power Laboratory.....	785	3	7
Totals.....	10	...	...	481	...	...	421	...	...	588
MECHANICS												
Statics.....	601	5	159	601	5	66	601	5	104
Strength of Materials.....	602	5	60	602	5	132	602	5	48
Strength of Materials, Kinetics and Hydraulics.....	603	5	12	603	5	57	603	5	109
Strength of Materials.....	604	3	9	...	...	261
Totals.....	281	...	...	264	...	...	...
MEDICINE												
Medical Law.....	601	2	58

Physical Diagnosis.....	...	...	...	...	601	3	78	...	...	...
Ward Clinic.....	...	...	...	602	2	54	2	56	...	...
Dispensary.....	...	...	...	602	3	59	3	56	...	...
General Medicine.....	...	...	...	602	5	82	5	82	...	...
Ward Clinics.....	...	...	...	...	...	...	...	...	603	2	56
Dispensary.....	...	...	...	...	...	...	...	...	603	3	56
General and Clinical Medicine.....	...	...	...	...	...	...	...	...	604	5	86
Nervous Diseases.....	...	...	605	3	82	...	...	...	...	...	...
Dermatology.....	...	...	...	...	...	...	...	...	606	3	86
General and Clinical Medicine.....	...	...	608	2	63	...	...	...	...	...	...
General and Clinical Medicine.....	...	...	...	...	...	609	2	61	...	...	...
General and Clinical Medicine.....	...	...	...	...	...	...	...	...	610	2	58
Psychiatry.....	...	...	...	...	...	611	1	55	...	...	...
Therapeutics.....	...	...	...	...	...	...	...	...	614	2	58
Pediatrics, Didactics and Chemical.....	...	...	615	2	63	615	2	61	...	...	...
Pediatrics, Clinical Conference.....	...	...	...	...	...	...	...	...	617	2	58
Tuberculosis.....	...	...	...	...	...	619	2	54	...	...	...
Nervous Diseases.....	...	...	...	...	...	630	2	39	630	2	12
Elementary Clinical Medicine.....	...	...	...	...	...	...	...	...	625	2	75
Totals.....	...	...	...	...	403	...	...	542	...	...	603
METALLURGY											
Metallurgical Analysis.....	...	...	...	...	...	405	5	12	...	...	...
Metal Analysis.....	...	...	...	...	...	...	...	...	406	5	9
Fire Assaying.....	...	...	...	...	...	410	3	6	410	3	8
Metallurgical Analysis.....	...	...	451	3	54	...	...	...	...	...	...
Ceramic Analysis.....	...	...	...	...	...	452	4	50	...	...	...
Ceramic Analysis.....	...	...	...	...	...	...	...	...	453	4	40
Metallurgical Analysis.....	...	...	...	...	...	...	...	...	454	4	4
Fuels and Fuel Testing.....	...	...	601	5	15	...	...	...	...	...	...
Iron and Steel Metallurgy.....	...	...	...	...	...	605	3	15	...	...	...
Principles of Metallurgy.....	...	...	...	...	...	606	2	15	...	...	...
Calorimetry and Advanced Fuel Analysis.....	...	...	...	...	...	608	3	3	...	...	...
Non-Ferrous Metallurgy.....	...	...	...	...	...	...	...	...	610	5	13
Principles of Ore Dressing.....	...	...	620	5	6	620	5	4	...	...	...
Pyrometry.....	...	...	650	2	41	...	...	...	...	...	...
Fuels.....	...	...	651	3	43	651	3	38	...	...	...
Gas Testing and Calorimetry.....	...	...	652	1	34	...	...	...	...	...	...
Technical Gas and Fuel Analysis.....	...	...	...	...	...	655	3	2	...	...	...
General Metallurgy.....	...	...	...	...	...	...	...	...	665	5	26
Advanced Metallography.....	...	...	701	4	10	...	...	...	...	...	...
Heat Treatment and Special Steels.....	...	...	...	...	...	702	3	10	...	...	...
Metallurgical Construction.....	...	...	...	...	...	705	4	9	...	...	...
Metallurgical Construction.....	...	...	...	...	...	...	...	...	706	4	6
Metallurgical Investigations.....	...	...	710	3	10	710	3	11	...	...	...
Metallurgical Investigations.....	...	...	...	...	...	711	3-5	4	711	3-5	10
Ore Dressing.....	...	...	720	3	11	...	...	...	...	...	...
Coal Preparation.....	...	...	721	3	2	...	...	...	...	...	...
Thesis.....	725	5-6	3	725	5-6	8
Totals.....	226	182	124

THE WORK OF INSTRUCTORS—1926-1927—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
MILITARY SCIENCE												
First Year Basic Course (Infantry).....	401	1	1182	402	1	1047	403	1	923
Second Year Basic Course (Infantry).....	404	1	793	405	1	732	406	1	601
First Year Advanced Course (Infantry)....	507	3	54	508	3	35	509	3	47
Second Year Advanced Course (Infantry)....	510	3	40	511	3	51	512	3	33
First Year Basic Course (Field Artillery)....	421	1	636	422	1	633	423	1	562
Second Year Basic Course (Field Artillery)....	424	1	357	425	1	324	426	1	296
First Year Advanced Course (Field Artillery)	527	3	52	528	3	60	529	3	48
Second Year Advanced Course (Field Artillery)	530	3	32	531	3	29	532	3	31
Second Year Basic Course (Signal Corps)....	444	1	67	445	1	73	446	1	68
First Year Advanced Course (Signal Corps)...	547	3	19	...	...	...	...	...	...
Second Year Advanced Course (Signal Corps)	551	3	23	552	3	20	...	...	...
First Year Basic Course (Medical Corps)...	461	1	40	462	1	42	463	1	39
Second Year Basic Course (Medical Corps)...	464	1	22	465	1	24	466	1	25
First Year Advanced Course (Medical Corps)	567	1	19	568	1	21	569	1	20
Second Year Advanced Course (Medical Corps)	570	1	11	571	1	11	572	1	10
First Year Basic Course (Dental Corps)....	451	1	50	452	1	49	453	1	43
Second Year Basic Course (Dental Corps)...	454	1	68	455	1	64	456	1	63
First Year Advanced Course (Dental Corps)...	557	1	47	558	1	34	559	1	31
Second Year Advanced Course (Dental Corps)	560	1	32	561	1	23	562	1	10
First Year Basic Course (Veterinary Medicine)	471	1	24	472	1	23	473	1	23
Second Year Basic Course (Veterinary Medicine)	473	1	11	474	1	12	475	1	11
First Year Advanced Course (Veterinary Medicine)	577	1	8	578	1	9	579	1	11
Second Year Advanced Course (Veterinary Medicine)	580	1	6	581	1	6	582	1	6
Totals	3593	...	...	3322	...	...	2901
MINE ENGINEERING												
Mine Surveying.....	401	5	6	...	...	...	...	...	...
Mapping	402	2	6	...	...	...
Mine Surveying.....	404	1	4
Surveying	501	5	12	...	...	...	501	5	19
Prospecting and Preliminary Operations.....	601	5	5
Developments and Methods of Mining.....	701	3	4	...	...	...	...	...	...
Mine Operations.....	702	5	3	...	...	...

Mine Examinations and Reports.....	...	...	...	...	...	...	...	...	703	5	3
Mine Design.....	...	...	...	711	5	1	...	...	...	...	...
Mine Design.....	...	...	...	712	5	1	...	...	...	...	...
Thesis .....	...	...	...	741	5	2	...	...	741	5	1
Mine Investigations.....	...	...	...	750	3-5	1	750	3-5	1	...	...
Totals .....	...	...	...	...	27	...	...	13	...	...	32

MINERALOGY

Crystallography and Descriptive Mineralogy..	...	...	...	401	3	55	401	3	19	401	3	10
Descriptive Mineralogy.....	...	...	...	402	3	3	402	3	42	402	3	15
Blowpipe Analysis.....	...	...	...	404	4	6	404	4	8	...	...	...
Advanced Crystallography.....	...	...	...	...	...	...	...	...	...	601	5	8
Thermochemical Mineralogy.....	...	...	...	605	3	14	...	...	...	605	4	38
Advanced Thermochemical Mineralogy.....	...	...	...	...	...	...	606	3	4	...	...	...
Elementary Microscopic Petrography.....	...	...	...	...	...	...	...	...	...	611	4	15
Microscopic Mineralogy.....	...	...	...	621	5	8	...	...	...	...	...	...
Mineralogical Investigations.....	...	...	...	...	...	...	631	5	3	...	...	...
Research .....	...	...	...	801	5	2	...	...	...	...	...	...
Dissertations .....	...	...	...	...	...	...	802	6	2	...	...	...
Research .....	...	...	...	...	...	...	...	...	...	803	5	2
Totals .....	...	...	...	...	...	88	...	...	78	...	...	88

MUSIC

Appreciation of Music.....	301	2	69	...	...	...	...	...	...	...	...	...
Appreciation of Music.....	...	...	17	...	...	...	...	...	...	...	...	...
Choral Music in the 16th and 17th Centuries..	305	2	9	...	...	...	...	...	...	...	...	...
Choral Music in the 16th and 17th Centuries..	306	2	6	...	...	...	...	...	...	...	...	...
General Methods.....	310	2	5	...	...	...	...	...	...	...	...	...
Primary Methods and Practice Teaching.....	315	2	17	...	...	...	...	...	...	...	...	...
Intermediate Methods and Practice Teaching..	320	2	13	...	...	...	...	...	...	...	...	...
High School Materials.....	327	4	10	...	...	...	...	...	...	...	...	...
Rural School Music and County Supervision..	330	2	5	...	...	...	...	...	...	...	...	...
Teaching of Musical Theory.....	350	2	3	...	...	...	...	...	...	...	...	...
Short Course in Harmony I.....	351	2	14	...	...	...	...	...	...	...	...	...
Short Course in Harmony II.....	352	2	2	...	...	...	...	...	...	...	...	...
Instruments of the Orchestra.....	360	2	10	...	...	...	...	...	...	...	...	...
Orchestral Materials and Scoring.....	361	2	5	...	...	...	...	...	...	...	...	...
Organization and Drills of Bands and Orchestras	362	2	10	...	...	...	...	...	...	...	...	...
Conducting	365	2	11	...	...	...	...	...	...	...	...	...
Beginning Sight Singing.....	370	1	14	...	...	...	...	...	...	...	...	...
Intermediate Sight Singing.....	371	1	5	...	...	...	...	...	...	...	...	...
Assembly	390	1	43	...	...	...	...	...	...	...	...	...
Assembly	391	1	6	...	...	...	...	...	...	...	...	...
Assembly	392	1	3	...	...	...	...	...	...	...	...	...
Assembly	393	1	1	...	...	...	...	...	...	...	...	...
History and Appreciation of Music.....	...	...	...	430	4	40	...	...	...	...	...	...
History and Appreciation of Music.....	...	...	...	...	...	...	431	4	29	...	...	...
History and Appreciation of Music.....	432	4	19
The Romanticists.....	601	4	2
The Opera.....	602	4	5

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Modern Music.....	603	4	5
Totals	278	...	...	42	...	...	34	...	...	24
OBSTETRICS												
Normal Obstetrics.....	601	3	85	...	...	...
Abnormal Obstetrics.....	602	3	86
Pathological Obstetrics.....	603	3	63	...	...	...	...	...	...
Pathological Obstetrics.....	604	3	60	...	...	...
Clinical Obstetrics.....	All quarters. Students—58.			...	...	...	...	...	...	...	...	144
Totals	58	...	...	121	...	...	203	...	...	...
OPHTHALMOLOGY AND OTO-LARYNGOLOGY												
Ophthalmology	601	3	82	...	...	...	...	...	...
Oto-Laryngology	602	3	80	...	...	...
Totals	82	...	...	80	...	...	...
PATHOLOGY												
Pathology	450	3	47	...	...	...	...	...	...
Pathology	451	3	47	...	...	...
Ward Clinic.....	601	2	64	...	...	...	...	...	...
Dispensary Clinic.....	601	3	32	...	...	...	...	...	...
General Pathology.....	601	3	72	...	...	...
Special Pathology.....	602	5	69
Ward Clinic.....	602	2	56	...	...	...
Dispensary Clinic.....	602	3	56	602	3	56
Clinical Pathology.....	603	3	82	...	...	...	603	3	56
Clinical Pathology.....	604	3	84	...	...	...
Surgical Pathology.....	605	2	20
Medical Pathology.....	606	2	40
Post Mortem Demonstration.....	607	1	148	607	1	120	607	1	120
Advanced Pathology.....	608	3-5	10	...	...	...	...	...	...
Advanced Pathology.....	609	3-5	12	...	...	...
Advanced Pathology.....	610	3-5	10
Advanced Special Pathology.....	611	3-5	3	...	...	...	...	...	...
Advanced Special Pathology.....	611	3-5	5	...	...	...
Advanced Clinical Pathology.....	616	3	2	...	...	...	613	3-5	4
Advanced Clinical Pathology.....	618	3	7

Nurses' Urinalysis.....	...	...	...	...	...	...	...	...	33	...	...	...
Public Health Veneral Disease Clinic.....	...	...	...	...	...	...	...	3	39	...	...	...
Totals .....	...	...	...	...	...	388	...	...	524	...	...	382
PHARMACY												
Pharmacy .....	...	...	...	401	5	43	401	5	16	...	...	...
Pharmacy .....	...	...	...	...	...	...	402	5	34	402	5	23
Pharmacy .....	...	...	...	403	5	6	...	...	...	403	5	35
Pharmacy .....	...	...	...	404	5	18	404	5	13	...	...	...
Pharmacy .....	...	...	...	...	...	...	405	5	25	405	5	7
Pharmacy .....	...	...	...	406	5	20	...	...	...	406	5	24
Pharmacy .....	...	...	...	407	3	15	407	3	8	...	...	...
Materia Medica.....	...	...	...	...	...	...	408	3	17	408	3	7
Materia Medica.....	...	...	...	409	3	16	...	...	...	409	3	14
Materia Medica.....	...	...	...	410	5	21	...	...	...	...	...	...
Pharmaceutical Analysis.....	...	...	...	...	...	...	411	5	22	...	...	...
Pharmaceutical Analysis.....	...	...	...	...	...	...	...	...	...	412	5	21
Pharmaceutical Analysis.....	...	...	...	416	3	18	...	...	...	...	...	...
Pharmacognosy: Microscopical.....	...	...	...	...	...	...	417	3	20	...	...	...
Pharmacognosy: Microscopical.....	...	...	...	...	...	...	...	...	...	418	3	19
Pharmacognosy: Microscopical.....	...	...	...	419	5	8	...	...	...	419	5	17
Toxicology .....	...	...	...	422	5	17	...	...	...	422	5	22
Pharmacognosy: Commercial .....	...	...	...	423	2	13	...	...	...	...	...	...
Pharmacy: Commercial .....	...	...	...	...	...	...	424	2	8	...	...	...
Pharmacy: Commercial .....	...	...	...	425	1	16	425	1	9	...	...	...
Pharmaceutical Arithmetic.....	...	...	...	...	...	...	426	1	13	426	1	9
Pharmaceutical Arithmetic.....	...	...	...	...	...	...	427	3	7	427	3	19
Pharmacy: Applied .....	...	...	...	428	1	12	...	...	...	428	1	5
Current Literature.....	...	...	...	...	3	22	...	3	20	...	3	16
Thesis .....	...	...	...	...	...	245	...	...	212	...	...	238
Totals .....	...	...	...	...	...	...	...	...	...	...	...	...
PHILOSOPHY												
Introduction to Philosophy.....	301	2	14	...	...	...	...	...	...	...	...	...
Introduction to Philosophy.....	302	2	3	...	...	...	...	...	...	...	...	...
Elementary Ethics.....	305	2	23	...	...	...	...	...	...	...	...	...
Elementary Ethics.....	306	2	3	...	...	...	...	...	...	...	...	...
Modern Philosophy.....	353	2	11	...	...	...	...	...	...	...	...	...
Modern Philosophy.....	354	2	1	...	...	...	...	...	...	...	...	...
Introduction to Philosophy.....	401	5	34	401	5	84	401	5	70	401	5	93
Elementary Logic.....	402	5	19	402	5	35	402	5	51	402	5	106
Elementary Ethics.....	405	5	18	405	5	44	405	5	18	405	5	49
Development of Hebrew Ideas in the Old Testament .....	...	...	...	407	5	17	...	...	...	...	...	...
Origin and Development of Religious Ideas.....	...	...	...	...	...	...	408	5	44	...	...	...
Esthetics	415	5	20	...	...	...	...	...	...	415	5	42
Ancient and Medieval Philosophy.....	...	...	...	601	5	25	...	...	...	...	...	...
Modern Philosophy.....	602	5	20	...	...	...	602	5	21	...	...	...
Contemporary Philosophy.....	...	...	...	...	...	...	...	...	...	603	5	19
Origin of Our Moral Ideas.....	...	...	...	...	...	...	605	5	31	...	...	...
Philosophy and Poetry.....	...	...	...	...	...	...	...	...	...	608	3	16
Origins of Christian Thought.....	...	...	...	...	...	...	610	3	22	...	...	...
Plato .....	...	...	...	...	...	...	623	3	6	...	...	...

Gymnastics for the Upper Grades.....	491	2	1	...	...	...	...	...	...	...	...	...
Therapeutic Gymnastics and Physical Examinations .....	...	...	...	...	...	...	...	...	...	493	3	1
Principles of Coaching Football.....	501	2	25	...	...	...	...	...	...	...	...	...
Principles of Coaching Basketball.....	504	1	43	...	...	...	...	...	...	...	...	...
Principles of Coaching Track and Field Sports.....	508	1	23	...	...	...	...	...	...	...	...	...
Principles of Coaching Baseball.....	512	1	15	...	...	...	...	...	...	...	...	...
Organization and Administration.....	...	...	...	...	...	...	...	...	...	682	5	8
History and Principles of Physical Education.....	...	...	...	...	...	...	683	5	42	...	...	...
Prevention and Care of Injuries Including Training of Athletes.....	...	...	...	685	3	10	...	...	...	...	...	...
Kinesiology .....	...	...	...	691	3	9	...	...	...	...	...	...
Hygiene and School Health Problems.....	...	...	...	...	...	...	692	3	33	...	...	...
Totals .....	...	...	142	...	...	2684	...	...	2668	...	...	2384
PHYSICAL EDUCATION—WOMEN												
Hygiene .....	...	...	...	400	1	340	400	1	381	400	1	165
Physical Education.....	...	...	...	421	1	887	...	...	...	...	...	...
Physical Education.....	...	...	...	...	...	...	422	1	769	...	...	...
Physical Education.....	...	...	...	...	...	...	...	...	...	423	1	767
Physical Education.....	...	...	...	425	1	655	...	...	...	...	...	...
Physical Education.....	...	...	...	...	...	...	426	1	625	...	...	...
Physical Education.....	...	...	...	...	...	...	...	...	...	427	1	649
Elementary Folk Dancing.....	461	2	9	...	...	...	...	...	...	...	...	...
Advanced Folk Dancing.....	462	2	11	...	...	...	...	...	...	...	...	...
Sports Technique.....	471	2	9	...	...	...	...	...	...	...	...	...
First Aid.....	473	1	60	...	...	...	...	...	...	...	...	...
Organization and Administration of Physical Education in Secondary Schools.....	481	1	3	...	...	...	...	...	...	...	...	...
Play and Playground.....	482	2 or 3	13	...	...	...	...	...	...	...	...	...
Gymnastics for the Lower Grades.....	490	2	4	...	...	...	...	...	...	...	...	...
Gymnastics for the Upper Grades.....	491	2	8	...	...	...	...	...	...	...	...	...
Therapeutic Gymnastics and Physical Examinations .....	...	...	...	...	...	...	...	...	...	493	3	19
Theory and Practice of Physical Education....	...	...	...	541	3	41	...	...	...	...	...	...
Theory and Practice of Physical Education....	...	...	...	...	...	...	542	3	32	...	...	...
Theory and Practice of Physical Education....	...	...	...	...	...	...	...	...	...	543	3	25
Theory and Practice of Physical Education....	...	...	...	545	3	27	...	...	...	...	...	...
Theory and Practice of Physical Education....	...	...	...	...	...	...	546	3	24	...	...	...
Theory and Practice of Physical Education....	...	...	...	...	...	...	...	...	...	547	3	23
Theory and Practice of Physical Education....	...	...	...	549	3	23	...	...	...	549	3	21
Theory and Practice of Physical Education....	...	...	...	...	...	...	550	3	20	...	...	...
Theory and Practice of Physical Education....	...	...	...	...	...	...	...	...	...	551	3	17
Therapeutic Gymnastics, Advanced.....	...	...	...	671	3	16	...	...	...	671	3	3
Organization and Administration of Physical Education.....	...	...	...	...	...	...	...	...	...	682	5	18
Kinesiology .....	...	...	...	691	3	8	...	...	...	...	...	...
Totals .....	...	...	117	...	...	1997	...	...	1851	...	...	1716
PHYSICS												
General Physics: Mechanics and Heat.....	401	5	71	401	5	53
General Physics: Sound, light, Electricity...	402	5	32

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
General Physics: Mechanics and Heat.....	403	5	6	403	5	105	...	...	...	...	...	...
General Physics: Sound, Light, Electricity...	...	...	...	...	...	...	404	5	80	...	...	...
Advanced General Physics: Mechanics and Heat .....	...	...	...	407	5	7	...	...	...	...	...	...
Advanced General Physics: Sound, Light and Electricity .....	...	...	...	...	...	...	408	5	6	...	...	...
General Physics: Mechanics.....	...	...	...	411	5	201	411	5	47	...	...	...
General Physics: Heat, Sound, and Light....	412	5	7	...	...	...	412	5	165	...	...	...
General Physics: Electricity.....	...	...	...	...	...	...	...	...	...	413	5	144
Physics for Agricultural Students: Mechanics, Heat and Electricity.....	...	...	...	421	5	35	421	5	55	421	5	43
General Physics for Engineers: Mechanics and Heat to Conduction.....	...	...	...	431	5	223	431	5	84	431	5	37
General Physics for Engineers: Heat Completed, Sound, and Light.....	432	5	13	...	...	...	432	5	205	...	...	...
General Physics for Engineers: Electricity and Magnetism.....	...	...	...	433	5	19	...	...	...	433	5	130
Electricity and Magnetism.....	...	...	...	435	3	111	...	...	...	...	...	...
Electricity and Magnetism.....	...	...	...	...	...	...	436	5	83	...	...	...
Electrical Measurements and Photometry....	...	...	...	...	...	...	...	...	...	437	5	78
Advanced Laboratory: Mechanics and Heat.....	...	...	...	602	3	5	602	3	1	602	3	3
Advanced Laboratory: Radiation.....	...	...	...	603	3	3	503	3	6	...	...	...
Advanced Laboratory: Electrical Measurements	604	3	8	604	3	14	...	...	...	604	3	15
Advanced Laboratory: Ionization and Radioactivity .....	...	...	...	...	...	...	605	3	11	...	...	...
Advanced Light.....	...	...	...	...	...	...	607	4	6	...	...	...
Advanced Electricity.....	608	4	8	...	...	...	...	...	...	608	4	17
Molecular Physics and Heat.....	...	...	...	609	4	21	...	...	...	...	...	...
Conduction of Electricity Through Gases and Radioactivity .....	...	...	...	...	...	...	610	4	16	...	...	...
Modern Spectroscopy.....	611	4	8	...	...	...	...	...	...	611	4	15
Minor Investigation.....	...	...	...	...	...	...	631	3	3	...	...	...
Minor Investigation.....	...	...	...	...	...	...	...	...	...	632	3	4
Electrical Measurements.....	...	...	...	788	4	47	...	...	...	...	...	...
Advanced Theory of Light.....	...	...	...	801	3	3	...	...	...	...	...	...
Advanced Theory of Light.....	...	...	...	...	...	...	802	3	2	...	...	...
Theory of Electricity and Magnetism.....	...	...	...	805	3	5	...	...	...	...	...	...

Theory of Electricity and Magnetism.....	...	...	...	...	...	806	3	5	...	...	...
Theory of Electricity and Magnetism.....	...	...	...	...	...	...	...	...	807	3	5
Theory of Oscillations.....	...	...	809	3	5	...	...	...	...	...	...
Theory of Oscillations.....	...	...	...	...	...	...	...	...	811	3	4
Theoretical Mechanics.....	817	3	10	...	...	...	...	...	...	...	...
Research Laboratory.....	830	3	2	830	3	8	...	...	880	3	1
Research Laboratory.....	...	...	...	831	3	1	831	3	10	...	...
Research Laboratory.....	...	...	...	...	...	...	...	...	832	3	12
Totals.....	...	...	62	...	...	884	...	...	817	...	561
PHYSIOLOGICAL CHEMISTRY											
Physiological Chemistry.....	...	...	...	...	...	...	...	...	401	3	68
Physiological Chemistry.....	...	...	601	5	92	...	...	...	...	...	...
Physiological Chemistry.....	...	...	...	...	...	602	5	68	...	...	...
Quantitative Methods of Blood and Urine	...	...	...	...	...	...	...	...	...	...	...
Analysis.....	...	...	603	3	13	...	...	...	...	...	...
Pharmacology.....	...	...	...	...	...	...	...	...	605	5	72
Materia Medica.....	...	...	...	...	...	...	...	...	606	5	77
Research in Physiological Chemistry.....	...	...	...	...	...	802	...	7	...	...	...
Research in Physiological Chemistry.....	...	...	...	...	...	...	...	...	803	3	4
Advanced Physiological Chemistry.....	...	...	...	...	...	...	...	...	807	3	4
Physiological Chemistry.....	...	...	811	1	4	...	...	...	...	...	...
Physiological Chemistry.....	...	...	...	0	32	...	...	...	...	...	...
Totals.....	...	...	...	...	141	...	...	75	...	...	225
PHYSIOLOGY											
Elementary Physiology.....	...	...	401	5	43	...	...	...	...	...	...
Elementary Physiology.....	...	...	...	...	...	402	5	30	...	...	...
Elementary Physiology.....	...	...	403	5	201	403	5	74	...	...	...
Elementary Physiology.....	...	...	...	...	...	404	5	170	404	5	40
General Physiology.....	...	...	...	...	...	...	...	...	406	5	12
Comparative Physiology.....	...	...	413	4	13	...	...	...	...	...	...
Comparative Physiology.....	...	...	...	...	...	414	4	13	...	...	...
Principles of Physiology.....	...	...	...	...	...	...	...	...	419	5	104
Physiology of the Eye.....	...	...	...	...	...	...	...	...	440	3	3
Dental Physiology.....	...	...	501	6	68	...	...	...	...	...	...
Dental Physiology.....	...	...	...	...	...	502	6	72	...	...	...
Dental Physiology.....	...	...	...	...	...	...	...	...	503	2	77
Advanced Physiology.....	...	...	601	5	12	...	...	...	...	...	...
Advanced Physiology.....	...	...	...	...	...	602	5	12	...	...	...
Advanced Physiology.....	...	...	604	6	72	...	...	...	...	...	...
Advanced Physiology.....	...	...	...	...	...	605	6	71	...	...	...
Medical Physiology.....	...	...	...	...	...	...	...	...	606	2	77
Physiological Laboratory.....	...	...	608	5	1	...	...	...	...	...	...
Physiological Laboratory.....	...	...	...	...	...	609	5	1	...	...	...
Physiological Laboratory.....	...	...	...	...	...	...	...	...	610	5	1
Physiological Laboratory.....	...	...	611	5	2	...	...	...	...	...	...
Physiological Laboratory.....	...	...	...	...	...	...	...	...	613	5	17
Research Physiology: Minor.....	...	...	801	5	3	...	...	...	...	...	...
Research Physiology: Minor.....	...	...	...	...	...	...	...	...	...	...	...
Research Physiology: Minor.....	...	...	...	...	...	802	5	4	...	...	...
Research Physiology: Major.....	...	...	804	10-15	3	...	...	...	803	5	4

Teaching of English Studies in the Elementary Schools	305	2	26	...	...	...	...	...	...	...	...	...
Teaching of Social Studies in the Elementary Schools	306	2	30	...	...	...	...	...	...	...	...	...
Supervised Study	311	2	29	...	...	...	...	...	...	...	...	...
Principles and Methods of Junior High Teaching	314	2	32	...	...	...	...	...	...	...	...	...
Principles and Methods of Junior High Teaching	315	2	20	...	...	...	...	...	...	...	...	...
Teaching the Primary Grades	316	2	44	...	...	...	...	...	...	...	...	...
Special Problems in Organization, Management and Teaching of a Rural School	337	2	13	...	...	...	...	...	...	...	...	...
Supervision of Teaching in Secondary Schools	357	2	55	...	...	...	...	...	...	...	...	...
Supervision of Teaching in Secondary Schools	358	2	26	...	...	...	...	...	...	...	...	...
Supervision of Elementary School Teaching	360	2	24	...	...	...	...	...	...	...	...	...
Supervision of Elementary School Teaching	361	2	25	...	...	...	...	...	...	...	...	...
Methods and Problems of the Physical Science	364	2	20	...	...	...	...	...	...	...	...	...
Methods and Problems of the Physical Science	365	2	17	...	...	...	...	...	...	...	...	...
Rural Teacher Training	372	2	6	...	...	...	...	...	...	...	...	...
Survey of Scientific Investigation in Elementary School Subjects	374	2	10	...	...	...	...	...	...	...	...	...
The Rural Elementary Curriculum	377	2	13	...	...	...	...	...	...	...	...	...
Supervision of Rural Elementary Schools	378	2	7	...	...	...	...	...	...	...	...	...
Principles of Education	...	...	...	401	5	146	401	5	117	401	5	237
Contemporary Educational Practices	...	...	...	...	...	...	...	...	...	406	3	26
Methods of High School Teaching	410	3	24	410	3	72	...	...	...	410	3	143
Principles and Methods of Junior High School Teaching	...	...	...	...	...	...	420	5	31	...	...	...
Practice Teaching in Secondary Schools	...	...	...	440	5	91	...	...	...	440	5	189
Practice Teaching in Elementary Schools	...	...	...	...	...	...	...	...	...	441	10	4
Teaching of Arithmetic and Science in Elementary Schools	...	...	...	...	...	...	...	...	...	492	3	11
Teaching of English Studies in Elementary Schools	...	...	...	493	3	12	...	...	...	...	...	...
Moral Ideals in Education	601	3	66	601	3	62	...	...	...	...	...	...
Cultural and Vocational Ideals in Education	605	4	41	...	...	...	605	4	16	...	...	...
Supervision of Teaching in Secondary Schools	...	...	...	610	3	19	610	3	12	...	...	...
Survey of Scientific Investigations in Elementary School Subjects	...	...	...	...	...	...	...	...	...	612	3	5
Supervision of Elementary School Teaching	...	...	...	...	...	...	...	...	...	613	3	12
Curriculum Constructions in Elementary Education	614	3	19	619	3	17	...	...	...	...	...	...
Social Aims in Education	...	...	...	615	3	20	...	...	...	...	...	...
Elementary Teacher Training	...	...	...	...	...	...	616	4	9	...	...	...
Social Aims in Education	...	...	...	...	...	...	619	3	31	...	...	...
Conceptions of Mind in Educational Theory	620	3	96	...	...	...	620	3	35	...	...	...
Problems of Curriculum Construction in Secondary Education	625	3	53	...	...	...	...	...	...	625	3	5
Modern Tendencies in Education	640	3	84	...	...	...	...	...	...	640	3	55
The Doctrine of Interest and Apperception	643	3	12	...	...	...	643	3	8	...	...	...
Social Education	...	...	...	...	...	...	...	...	...	645	3	26
Minor Problems	650	2-4	9	650	2-4	2	650	2-4	1

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Minor Problems.....	...	...	...	651	2-4	6	...	...	...	...	...	...
Minor Problems.....	...	...	...	...	...	...	652	2-4	3	...	...	...
Minor Problems.....	...	...	...	...	...	...	...	...	...	653	2-4	52
Methods and Problems of the Physical Science	...	...	...	660	4	5	...	...	...	...	...	...
Methods and Problems of the Physical Science	...	...	...	...	...	...	...	...	...	661	4	6
The Place of Schools in the Social Organization	680	3	26	...	...	...	...	...	...	...	...	...
Theories of the Educational Process.....	682	3	25	...	...	...	...	...	...	...	...	...
The Thinking Process in Its Educational Bearing	683	3	40	...	...	...	683	3	13	...	...	...
The Place of Scientific Method in Education..	...	...	...	...	...	...	684	3	5	...	...	...
The Teaching of American History.....	700	3	25	700	3	25	...	...	...	705	5	22
The Teaching of Biology.....	...	...	...	...	...	...	...	...	...	710	3	9
The Teaching of Chemistry.....	...	...	...	...	...	...	...	...	...	715	3	95
The Teaching of English.....	715	3	61	...	...	...	...	...	...	...	...	...
Teaching and Supervision of Journalism in Secondary Schools	716	3	5	...	...	...	...	...	...	...	...	...
Teaching of European History.....	...	...	...	...	...	...	...	...	...	720	3	51
Teaching of German.....	725	3	2	...	...	...	...	...	...	...	...	...
Methods of Teaching Latin.....	...	...	...	730	3	6	...	...	...	...	...	...
The Teaching of Latin.....	731	3	25	...	...	...	...	...	...	...	...	...
The Teaching of Mathematics.....	735	3	12	735	3	14	...	...	...	...	...	...
The Teaching of French.....	740	3	10	...	...	...	740	3	15	...	...	...
The Teaching of Spanish.....	...	...	...	...	...	...	...	...	...	745	3	9
The Teaching of Mechanical Drawing.....	...	...	...	750	3	14	...	...	...	...	...	...
The Teaching of Mechanical Drawing.....	...	...	...	...	...	...	751	3	11	...	...	...
The Teaching of Physics.....	...	...	...	...	...	...	...	...	...	755	3	5
Spoken and Written English: Teachers' Course	...	...	...	...	...	...	...	...	...	760	3	4
Special Problems in Education Theory.....	801	3	8	801	3	3	...	...	...	...	...	...
Special Problems in Education Theory.....	...	...	...	802	3	20	...	...	...	...	...	...
Special Problems in Education Theory.....	...	...	...	...	...	...	803	3	14	...	...	...
Special Problems in Education Theory.....	...	...	...	...	...	...	...	...	...	804	3	14
Special Problems in Secondary Education.....	...	...	...	811	3	7	...	...	...	...	...	...
Special Problems in Secondary Education.....	...	...	...	...	...	...	812	3	7	...	...	...
Special Problems in the Physical Sciences in Secondary Schools	820	3	1	...	...	...	...	...	...	...	...	...
Special Problems in Elementary Education...	824	3	6	824	3	6	...	...	...	...	...	...
Special Problems in Elementary Education...	...	...	...	...	...	...	826	3	4	...	...	...
Special Problems in Elementary Education...	...	...	...	...	...	...	...	...	...	827	3	6

Teaching and Supervision of American History in the Secondary Schools.....	838	2	17	...	...	...	...	...	...	...	...	...
Teaching and Supervision of American History in the Secondary Schools.....	839	2	18	...	...	...	...	...	...	...	...	...
The Teaching and Supervision of English in the Secondary Schools.....	844	3	8	...	...	...	...	...	...	...	...	...
Major Research.....	850	2-5	1	...	...	...	...	...	...	...	...	...
Major Research.....	...	...	...	861	3+	1	...	...	...	...	...	...
Major Research.....	...	...	...	...	...	...	862	3	1	...	...	...
Major Research.....	...	...	...	...	...	...	...	...	...	863	3+	1
Thesis.....	...	...	...	...	...	...	...	...	4	...	...	...
Totals.....	...	...	1391	...	...	548	...	...	336	...	...	987

PSYCHOLOGY

Elementary Psychology.....	401	5	153	401	5	687	401	5	453	401	5	518
Elementary Psychology.....	402	5	28	402	5	248	402	5	393	402	5	316
Elementary Psychology.....	...	...	...	403	5	8	...	...	...	...	...	...
Elementary Psychology.....	...	...	...	...	...	...	404	4	8	...	...	...
Educational Psychology.....	407	5	181	407	5	218	407	5	176	407	5	231
Psychology of Effective Study.....	...	...	...	...	...	...	411	3	15	411	3	9
Experimental Psychology: Introduction.....	...	...	...	601	3	26	...	...	...	...	...	...
Experimental Psychology: Intermediate.....	...	...	...	...	...	...	602	3	20	...	...	...
Experimental Psychology: Advanced.....	...	...	...	...	...	...	...	...	...	603	3	16
Physiological Psychology.....	...	...	...	605	3	30	...	...	...	...	...	...
Advanced Psychology.....	...	...	...	...	...	...	606	3	14	...	...	...
Genetic Psychology and Child Study.....	607	5	31	...	...	...	...	...	...	607	5	129
Educational Statistics: Elementary.....	...	...	...	608	3	15	...	...	...	...	...	...
The Exceptional Child.....	609	3	30	...	...	...	...	...	...	609	3	82
Adolescence.....	610	3	45	610	3	106	...	...	...	...	...	...
The Mentally Deficient Child.....	611	3	78	611	3	79	...	...	...	...	...	...
Educational Statistics: Intermediate.....	...	...	...	...	...	...	612	3	7	...	...	...
Mental and Educational Tests.....	613	3	43	613	3	28	...	...	...	...	...	...
Problems of Test Work.....	614	3	10	...	...	...	...	...	...	...	...	...
Laboratory in Tests and Educational Diagnosis.....	...	...	...	...	...	...	615	3	16	...	...	...
Binet Mental Tests.....	616	2	13	616	2	24	616	2	23	...	...	...
Elementary Psychological Clinic.....	...	...	...	...	...	...	617	2	22	617	2	7
Clinical Mental Tests.....	618	2	7	618	2	16	...	...	...	618	2	18
Advanced Psychological Clinic.....	...	...	...	619	2	4	619	2	4	619	2	10
Practicum in Mental Diagnosis.....	620	2	6	620	2	1	620	2	1	620	2	4
Social Psychology.....	621	3	48	...	...	...	621	3	120	...	...	...
Psychology of the Delinquent Child.....	...	...	...	...	...	...	...	...	...	622	3	57
Psychology of Vision.....	...	...	...	...	...	...	...	...	...	624	3	5
Advanced Educational Psychology.....	628	3	18	...	...	...	...	...	...	628	3	8
Advanced Psychology.....	629	5	14	...	...	...	629	5	25	...	...	...
Psychology of Feeling and Emotion.....	...	...	...	...	...	...	...	...	...	630	5	15
Theory of Intelligence.....	...	...	...	...	...	...	631	3	21	...	...	...
Criminal and Legal Psychology.....	...	...	...	...	...	...	634	5	79	...	...	...
Psychology of Advertising.....	...	...	...	635	3	76	...	...	...	635	3	70
Advertising Psychology.....	...	...	...	...	...	...	636	3	5	...	...	...
Industrial Psychology.....	...	...	...	637	3	23	...	...	...	...	...	...
Industrial and Vocational Psychological Laboratory.....	...	...	...	...	...	...	...	...	...	638	3	6

Methods of Teaching Educational Nursing...	...	...	...	...	...	...	...	...	653	3	2
Personal Hygiene.....	...	...	...	...	...	...	...	...	801	3	1
Public Health Problems.....	...	...	...	...	...	...	...	...	802	4	1
Demography.....	...	...	...	802	4	1	802	4	1	...	...
Major Research.....	...	...	...	807	2	4	807	2	1	...	...
Applied Hygiene.....	...	...	...	816	6	1	816	6	1	816	6
Totals.....	...	...	...	...	...	129	...	...	179	...	235

ROMANCE LANGUAGES

Elementary French Conversation and Composition.....	310	2	2	...	...	...	...	...	...	...	...
French Literature of the 19th Century.....	354	2	7	...	...	...	...	...	...	...	...
Elementary French.....	401	5	19	401	5	350	401	5	142	401	5
Elementary French.....	403	5	17	402	5	83	402	5	364	402	5
Intermediate French.....	404	5	17	403	5	195	403	5	87	403	5
Intermediate French.....	405	5	9	404	5	91	404	5	137	404	5
Elementary Course in Reading of French....	...	...	...	405	5	8	...	...	...	...	...
Elementary Course in Reading of French....	...	...	...	...	...	...	406	5	6	...	...
Advanced French.....	...	...	...	407	5	36	...	...	...	407	5
Elementary French Conversation and Composition.....	410	5	10	410	5	24	410	5	41	410	5
French Literature of 17th Century (1600-1660).....	...	...	...	601	5	23	...	...	...	...	...
French Literature of 17th Century (1660-1700).....	...	...	...	...	...	...	602	5	18	602	5
French Literature of 19th Century (1800-1850).....	...	...	...	603	5	31	...	...	...	603	5
French Literature of 19th Century (1851-1900).....	604	5	31	...	...	...	604	5	43	...	...
French Literature of the 15th and 16th Centuries.....	...	...	...	605	3	12	...	...	...	...	...
The Comedy of Manners in 19th Century (1800-1880).....	...	...	...	...	...	...	611	3	5	...	...
The Comedy of Manners in 19th Century (1880-1922).....	...	...	...	...	...	...	...	...	...	...	...
History of French Literature 942-1660).....	...	...	...	...	...	...	613	3	5	612	3
History of French Literature (1660-1922).....	...	...	...	...	...	...	...	...	...	614	3
Intermediate French Conversation and Composition.....	...	...	...	623	3	13	623	3	12	...	...
Intermediate French Conversation and Composition.....	...	...	...	...	...	...	624	3	10	624	3
French Phonetics.....	...	...	...	...	...	...	627	3	16	627	3
Review of French Syntax.....	628	3	20	628	3	22	...	...	...	...	...
Introduction to Old French.....	...	...	...	801	3	3	...	...	...	...	...
Introduction to Old French.....	...	...	...	...	...	...	802	3	2	...	...
Research in French Literature.....	809	3-5	10	809	3-5	4	809	3-5	3	809	3-5
Seminary in French Literature.....	811	3	9	...	...	...	811	3	5	...	...
Seminary in French Literature.....	...	...	...	...	...	...	...	...	...	812	3
Old French Literature.....	...	...	...	...	...	...	...	...	...	814	3

ITALIAN

Elementary Italian.....	...	...	...	401	5	31	...	...	...	...	...
Elementary Italian.....	...	...	...	...	...	...	402	5	23	...	...
Modern Italian Literature (1800-1850).....	...	...	...	601	5	4	...	...	...	...	...
Modern Italian Literature (1851-1900).....	...	...	...	...	...	...	...	...	...	602	5
Survey of Italian Literature to 1400.....	609	3	11
Survey of Italian Literature 1400-1900.....	610	3

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
SPANISH												
Commercial Correspondence.....	305	12	12	...	...	...	...	...	...	...	...	...
Elementary Spanish.....	401	5	24	401	5	422	401	5	172	401	5	119
Elementary Spanish.....	402	5	14	402	5	144	402	5	244	402	5	151
Intermediate Spanish.....	403	5	8	403	5	170	403	5	109	403	5	185
Intermediate Spanish.....	...	...	...	404	5	83	404	5	91	404	5	66
Commercial Correspondence.....	405	5	10	405	5	21	...	...	...	...	...	...
Customs and Manners of Spain.....	...	...	...	...	...	...	406	3	9	...	...	...
Advanced Spanish.....	...	...	...	413	5	21	413	5	28	413	5	28
Advanced Spanish.....	...	...	...	414	5	11	414	5	20	414	5	16
Advanced Spanish.....	...	...	...	...	...	...	510	3	1	...	...	...
Advanced Composition and Conversation.....	...	...	...	605	3	7	...	...	...	...	...	...
Advanced Composition and Conversation.....	...	...	...	...	...	...	606	3	8	...	...	...
Modern Spanish Novel.....	608	5	9	...	...	...	...	...	...	...	...	...
Romantic Drama and Poetry of the 19th Century.....	...	...	...	...	...	...	609	5	12	...	...	...
Modern Spanish Drama.....	...	...	...	...	...	...	...	...	...	610	5	13
Prose of the Golden Age.....	...	...	...	613	5	16	...	...	...	...	...	...
Prose of the Golden Age.....	...	...	...	...	...	...	614	5	10	...	...	...
Survey of Spanish Literature from Earliest Times to End of 19th Century.....	...	...	...	...	...	...	615	5	6	...	...	...
Survey of Spanish Literature from Earliest Times to End of 19th Century.....	...	...	...	...	...	...	...	...	...	616	5	9
Sound Introductory Spanish Phonetics.....	620	5	15	...	...	...	...	...	...	...	...	...
Spanish Phonetics.....	...	...	...	...	...	...	...	...	...	625	5	6
The Spanish Ballad.....	...	...	...	805	3	7	...	...	...	...	...	...
Old Spanish.....	...	...	...	...	...	...	806	3	5	...	...	...
Old Spanish.....	...	...	...	810	2-5	3	810	2-5	1	810	2-5	4
Research in Spanish Literature.....	...	...	...	815	3	10	815	3	5	815	3	3
Seminary in Spanish Literature.....	...	...	283	...	...	1863	...	...	1651	...	...	1235
Totals.....	...	...	...	...	...	...	...	...	...	...	...	...
RURAL ECONOMICS												
Agricultural Economics.....	...	...	...	401	5	53	...	...	...	401	5	40
Farm Management.....	...	...	...	402	5	11	...	...	...	402	5	10
Farm Bookkeeping and Business Records.....	...	...	...	403	3	5	403	3	7	...	...	...
Sociology of Farm Folk.....	...	...	...	405	5	6	405	5	17	...	...	...
Cooperation in Agriculture.....	...	...	...	...	...	...	603	5	20	...	...	...

The Agricultural Industry.....	...	...	...	...	...	605	3	17	...	...	...
Rural Social Organization.....	...	...	...	607	3	5	...	...	...	...	...
Price of Farm Products.....	...	...	...	...	...	...	...	...	612	3	18	
Distribution of Farm Products.....	...	...	...	613	5	14	...	...	...	...	...
Business Management in Agricultural Market- ing .....	...	...	...	...	...	...	...	...	614	3	8	
Special Problems.....	701	3-15	4	701	3-15	1	701	3-15	2	701	3-15	8
Research and Seminary.....	...	...	...	801	3-15	2	801	3-15	7	801	3-15	8
Totals .....	...	...	4	...	...	97	...	...	70	...	...	92
SCHOOL ADMINISTRATION												
Fundamentals in School Administration.....	600	3	229	600	3	136	600	3	123	600	3	127
Child Accounting.....	601	3	180	601	3	47	601	3	126	600	3	94
The Teaching Corps.....	605	3	31	...	...	...	605	3	19	...	...	...
Building and Equipment.....	606	3	21	606	3	17	...	...	...	...	...	...
School Finances.....	607	3	42	...	...	...	607	3	17	...	...	...
Business Management of Schools.....	608	3	26	...	...	...	...	...	...	608	3	9
Extra-Curriculum Activities.....	609	3	32	...	...	...	609	3	15	...	...	...
Administration of Rural Education.....	610	3	15	610	3	8	...	...	...	...	...	...
State Administration of Education of U. S....	611	3	8	...	...	...	...	...	...	611	3	12
Minor Research Problems.....	617	2-4	5	...	...	...	...	...	...	...	...	...
Minor Research Problems.....	...	...	...	618	2-4	5	...	...	...	...	...	...
Minor Research Problems.....	...	...	...	...	...	...	619	2-4	16	...	...	...
Minor Research Problems.....	...	...	...	...	...	...	...	...	...	620	2-4	6
Proseminary (Teachers in Service).....	...	...	...	...	...	...	622	2	3	...	...	...
Proseminary (Teachers in Service).....	...	...	...	...	...	...	...	...	...	623	2	6
Administration of Standard Tests in Ele- mentary Schools.....	624	3	15	624	3	16	...	...	...	...	...	...
Administration of Standard Tests in Secondary Schools	625	3	30	...	...	...	625	3	1	...	...	...
Administration of Health Education.....	626	3	15	...	...	...	...	...	...	626	3	13
Administration of Vocational Education.....	627	3	9	...	...	...	...	...	...	...	...	...
Administrative Problems of the Elementary School Principal.....	628	3	20	...	...	...	628	3	10	...	...	...
Administrative Problems of the Secondary School Principal.....	629	3	50	629	3	8	...	...	...	...	...	...
Organization of the Senior High School.....	631	3	23	...	...	...	...	...	...	...	...	...
School Publicity.....	636	2	20	636	2	6	...	...	...	...	...	...
Administration of the Curriculum in the Ele- mentary School.....	640	3	14	...	...	...	...	...	...	...	...	...
Administration of the Curriculum in the Sec- ondary School.....	642	3	18	...	...	...	...	...	...	...	...	...
Educational Statistics: Elementary.....	643	3	77	643	3	11	...	...	...	...	...	...
Educational Statistics: Intermediate.....	644	3	13	...	...	...	...	...	...	...	...	...
Preparation of Thesis and Other Scientific Papers	800	1	28	...	...	...	...	...	...	...	...	...
Administration of Normal Schools and Colleges	801	3	8	...	...	...	...	...	...	...	...	...
Seminary in School Administration.....	802	2-5	39	802	2-5	5	802	2-5	13	802	2-5	6
Ad Interim Projects.....	...	...	...	...	...	...	803	2-5	14	803	2-5	23
Major Research Problems.....	804	3+	2
Major Research Problems.....	806	3	3
Major Research Problems.....	805	2-5	3

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Major-Research Problems.....	...	...	...	...	...	...	...	...	...	807	3	5
Seminary in County School Administration..	815	2-5	12	...	...	...	...	...	...	...	...	...
Administrative Problems of the City Superintendent	880	3	8	...	...	...	...	...	...	...	...	...
Thesis .....	...	...	8	...	...	...	...	...	...	...	...	...
Totals .....	...	...	998	...	...	262	...	...	360	...	...	301
SOCIOLOGY												
Principles of Sociology.....	401	5	84	401	5	271	401	5	215	401	5	272
Principles of Sociology.....	402	5	35	402	5	222	202	5	216	402	5	262
Principles of Sociology.....	...	...	...	410	5	60	410	5	69	410	5	86
Physical Anthropology.....	...	...	...	411	5	55	...	...	...	...	...	...
Social Anthropology.....	...	...	...	...	...	...	412	5	46	...	...	...
Primitive Man in Ohio.....	...	...	...	500	2	24	500	2	42	...	...	...
The Family.....	...	...	...	...	...	...	601	4	43	601	4	34
The Immigrant.....	...	...	...	...	...	...	605	4	62	...	...	...
The Race Problem.....	607	4	25	607	4	44	...	...	...	...	...	...
Adjustments of Alien Groups.....	...	...	...	...	...	...	...	...	...	609	4	28
Poverty.....	...	...	...	618	3	12	...	...	...	...	...	...
Social Treatment of Dependents.....	...	...	...	...	...	...	619	3	33	...	...	...
Social Treatment of the Child.....	620	3	8	...	...	...	...	...	...	620	3	55
The Community and the Child.....	...	...	...	621	3	38	...	...	...	621	3	67
The Criminal.....	...	...	...	...	...	...	...	...	...	625	3	78
Penology.....	...	...	...	626	3	15	...	...	...	...	...	...
Penology.....	...	...	...	...	...	...	627	3	4	...	...	...
Social Statistics.....	...	...	...	635	3	25	...	...	...	...	...	...
Social Statistics.....	...	...	...	...	...	...	636	3	20	...	...	...
Social Statistics.....	...	...	...	...	...	...	...	...	...	637	3	19
Leisure and Recreation.....	...	...	...	645	4	30	...	...	...	645	4	26
Social Organization and Administration of Recreation Facilities.....	...	...	...	...	...	...	646	4	12	...	...	...
Municipal Sociology.....	...	...	...	656	4	15	...	...	...	...	...	...
Rural Social Institutions.....	...	...	...	...	...	...	656	4	18	...	...	...
Welfare Problems in Rural Communities.....	...	...	...	...	...	...	...	...	...	657	4	12
Social Welfare Organization.....	661	2	20	...	...	...	...	...	...	...	...	...
Social Order and Social Control.....	...	...	...	665	3	22	...	...	...	...	...	...
Social Evolution.....	...	...	...	...	...	...	666	3	32	...	...	...
Social Progress.....	...	...	...	...	...	...	...	...	...	667	3	12

Community Health Organization.....	...	...	...	...	...	...	670	3	6	...	...	...
Community Health Organization.....	...	...	...	...	...	...	...	...	...	671	3	5
Field Work in Sociology.....	675	6-12	4	...	...	...	674	6-12	3	675	6-12	9
Social Case Work.....	...	...	...	...	...	...	695	3	9	...	...	...
Social Case Work.....	696	3	5	...	...	...	...	...	...	696	3	10
American Sociological Theory.....	...	...	...	805	2	2	...	...	...	...	...	...
American Sociological Theory.....	...	...	...	...	...	...	806	2	4	...	...	...
American Sociological Theory.....	...	...	...	...	...	...	...	...	...	807	2	4
Research in Social Control.....	...	...	...	...	...	...	809	2	1	...	...	...
Research in Social Control.....	...	...	...	...	...	...	...	...	...	810	2	1
Modern Social Welfare Movements.....	811	4	7	811	4	2	...	...	...	...	...	...
Modern Social Welfare Movements.....	...	...	...	...	...	...	812	4	2	...	...	...
Graduate Seminary.....	821	2	7	821	2	13	...	...	...	...	...	...
Graduate Seminary.....	...	...	...	...	...	...	822	2	13	...	...	...
Graduate Seminary.....	...	...	...	...	...	...	...	...	...	823	2	16
Research in Social Statistics.....	...	...	...	841	1-3	4	...	...	...	...	...	...
Research in Social Statistics.....	...	...	...	...	...	...	842	1-3	1	...	...	...
Research in Social Statistics.....	...	...	...	...	...	...	...	...	...	843	1-3	3
Methods of Sociological Investigation.....	...	...	...	845	3	5	...	...	...	...	...	...
Methods of Sociological Investigation.....	...	...	...	...	...	...	846	3	3	...	...	...
Totals .....	...	...	195	...	...	859	...	...	854	...	...	999
SOILS												
Soil Management.....	401	5	10	401	5	15	401	5	35	401	5	23
Theory and Practice in Soil Management.....	...	...	...	601	3	6	...	...	...	...	...	...
Origin and Classification of Soils.....	...	...	...	...	...	...	...	...	...	603	5	5
Physico-Chemical Analysis of Soil.....	...	...	...	604	5	4	...	...	...	...	...	...
Special Problems.....	701	3-15	6	701	3-15	1	...	...	...	701	3-15	1
Research in Soils.....	801	5	12	801	5	4	801	5	8	801	5	7
Soil Seminary.....	...	...	...	802	1	7	802	1	8	802	1	6
Totals .....	...	...	28	...	...	37	...	...	51	...	...	42
SURGERY												
Ward Clinics.....	...	...	...	602	2	59	602	2	56	...	...	...
Dispensary Clinic.....	...	...	...	602	3	59	602	3	56	...	...	...
General Surgery.....	...	...	...	602	5	82	...	...	...	...	...	...
Ward Clinics.....	...	...	...	...	...	...	...	...	...	603	3	56
Dispensary.....	...	...	...	...	...	...	...	...	...	603	2	56
General Surgery.....	...	...	...	...	...	...	603	5	86	...	...	...
Gynecology.....	...	...	...	...	...	...	...	...	...	605	3	86
General Surgery.....	...	...	...	...	...	...	...	...	...	604	5	86
Conference Clinics.....	...	...	...	607	1	63	...	...	...	...	...	...
Conference Clinics.....	...	...	...	...	...	...	608	1	56	...	...	...
Conference Clinics.....	...	...	...	...	...	...	...	...	...	609	1	58
Roentgenology.....	...	...	...	611	1-2	30	...	...	...	...	...	...
Syphilology.....	...	...	...	...	...	...	...	...	...	623	...	54
Totals .....	...	...	...	...	...	293	...	...	254	...	...	396
SURVEYS												
Survey of Education.....	...	...	...	401	1	482	...	...	...	...	...	...
Survey of Engineering.....	...	...	...	...	...	507	...	...	482	...	...	440
Survey of Agriculture.....	...	...	...	...	...	136	...	...	140	...	...	...
Survey of Arts Problems.....	851	109
Totals	1982	622	549

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
VETERINARY MEDICINE												
Osteology of Domestic Animals.....	401	5	24	...	...	...	...	...	...
Arthology, Myology, and Splanchnology of Domestic Animals.....	402	5	23	...	...	...
Myology and Splanchnology of Domestic Animals.....	403	5	23
Topographic Anatomy of Domestic Animals.....	405	5	14	...	...	...	...	...	...
Topographic Anatomy of Domestic Animals.....	405	5	15	...	...	...
Topographic Anatomy of Domestic Animals.....	406	5	14
Applied Anatomy of Domestic Animals.....	407	3	7	...	...	...
General Pathology.....	421	5	15
General Pathology.....	422	2	12	...	...	...	...	...	...
Special Pathology.....	423	4	13	...	...	...
Special Pathology.....	424	4	14
Special Pathology of Infectuous Diseases.....	426	4	8	...	...	...	...	...	...
Meat Inspection.....	427	3	8	...	...	...
Parasitology.....	428	4	8	...	...	...
Post Mortem and Laboratory Diagnosis.....	430	$\frac{1}{2}$	12	...	...	...	...	...	...
Post Mortem and Laboratory Diagnosis.....	431	$\frac{1}{2}$	12	...	...	...
Post Mortem and Laboratory Diagnosis.....	432	1	12
Post Mortem and Laboratory Diagnosis.....	433	$\frac{1}{2}$	8	...	...	...	...	...	...
Post Mortem and Laboratory Diagnosis.....	434	1	15	...	...	...
Post Mortem and Laboratory Diagnosis.....	435	1	8
Histology and Embryology of the Domesticated Animals.....	436	5	23	...	...	...
Histology and Embryology of the Domesticated Animals.....	437	5	25
Sporadic Diseases of Large Animals.....	441	4	13	...	...	...
Sporadic Diseases of Large Animals.....	442	4	14
Infectious Diseases of Large Animals.....	443	4	7	...	...	...	...	...	...
Infectious Diseases of Large Animals.....	444	4	7	...	...	...
Agricultural Veterinary Medicine.....	451	3	13	...	...	...	...	...	...
Agricultural Veterinary Medicine.....	452	3	23	...	...	...
Agricultural Veterinary Medicine.....	453	3	15
Materia Medica and Therapeutics.....	461	4	13	...	...	...
Materia Medica and Therapeutics.....	462	4	13
Diseases of Small Animals.....	463	3	13

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Diseases of Small Animals.....	464	4	12
Horseshoeing.....	465	3	11
General Surgery.....	466	4	10
Medical and Surgical Clinics.....	...	...	...	457	3	12	...	...	...	...	...	...
Medical and Surgical Clinics.....	...	...	...	...	...	...	468	3	12	...	...	...
Medical and Surgical Clinics.....	...	...	...	...	...	...	...	...	...	469	3	12
Medical and Surgical Clinics.....	...	...	...	470	3	8	...	...	...	...	...	...
Medical and Surgical Clinics.....	...	...	...	...	...	...	471	3	8	...	...	...
Medical and Surgical Clinics.....	...	...	...	...	...	...	...	...	...	472	3	8
Physical Diagnosis.....	...	...	...	473	3	10	...	...	...	...	...	...
Special Surgery.....	...	...	...	474	4	6	...	...	...	...	...	...
Special Surgery.....	...	...	...	...	...	...	475	4	6	...	...	...
Special Surgery.....	...	...	...	...	...	...	...	...	...	476	4	8
Operative Practice.....	...	...	...	477	1	8	...	...	...	...	...	...
Obstetrics.....	...	...	...	...	...	...	...	...	...	478	4	6
Hygiene and Sanitation.....	...	...	...	...	...	...	...	...	...	479	3	8
Hygiene and Sanitation.....	...	...	...	...	...	...	...	...	...	485	1	7
Pathology Technique.....	621	2 or 5	1	...	...	...	621	2 or 5	3	621	2 or 5	2
Advanced Special Pathology.....	...	...	...	...	...	...	622	2 or 5	1	622	2 or 5	1
Special Anatomical Pathology.....	822	5	1	...	...	...	...	...	...	822	5	1
Special Pathology Problems.....	...	...	...	824	5	1	824	5	1	...	...	...
Special Poultry Pathology.....	825	5	1	...	...	...	825	5	1	...	...	...
Totals.....	...	...	3	...	...	166	...	...	235	...	...	206

VOCATIONAL EDUCATION

Principles and Methods of Teaching Commercial Subjects.....	485	3	3	...	...	...	...	...	...	...	...	...
Part Time School Curricula.....	504	2	9	...	...	...	...	...	...	...	...	...
Methods in Teaching in Part-time School.....	505	2	6	...	...	...	...	...	...	...	...	...
Introduction to Vocational Education.....	506	2	9	506	2	10	...	...	...	...	...	...
Curricula for Commercial Courses.....	507	3	2	...	...	...	...	...	...	...	...	...
Special Methods in Vocational Teaching.....	511	2	9	...	...	...	...	...	...	...	...	...
Principles of Part-time Education.....	602	2	4	...	...	...	...	...	...	...	...	...
Principles of Commercial Education.....	605	3	8	...	...	...	...	...	...	...	...	...
Principles of Vocational Guidance.....	606	3	7	...	...	...	...	...	...	...	...	...
Minor Problems.....	620	2-4	1	620	2-4	1	...	...	...	...	...	...
Totals.....	...	...	58	...	...	11	...	...	...	...	...	...

ZOOLOGY AND ENTOMOLOGY

Elementary Zoology.....	401	5	43	401	5	595	401	5	112	401	5	174
Elementary Zoology.....	402	5	31	402	5	99	402	5	459	402	5	108
General Principles of Heredity.....	403	5	33	403	5	55	...	...	...	403	5	135
Animal Parasites.....	...	...	...	...	...	...	404	5	13	...	...	...
Animal Microtechnic.....	...	...	...	...	...	...	...	...	...	407	3	9
Evolution.....	...	...	...	...	...	...	409	5	49	409	5	36
Elementary Zoology for Pre-Medical Students.....	...	...	...	...	...	...	...	...	...	411	5	162
Economic Entomology.....	451	5	10	451	5	27	...	...	...	451	5	47
Economic Entomology.....	452	5	2	...	...	...	452	5	11	...	...	...
Apiculture.....	453	5	3	...	...	...	...	...	...	453	5	5
Entomological Literature and Principles of Taxonomy.....	...	...	...	...	...	...	456	5	4	...	...	...
Advanced Studies in Animal Heredity.....	601	3	7

THE WORK OF INSTRUCTORS—1926-1927—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Studies in Animal Heredity.....	602	3	2	...	...	...
Advanced Studies in Animal Heredity.....	603	3	1
Animal Ecology.....	604	5	3
Animal Behavior.....	605	3 or 5	9	...	...	...	...	...	...
Animal Behavior.....	606	3 or 5	1	...	...	...
Animal Behavior.....	607	3 or 5	16
Advanced Zoology of Invertebrates.....	615	5	20	...	...	...	...	...	...
Advanced Zoology of Invertebrates.....	616	5	18	...	...	...
Cellular Biology.....	617	5	7
Advanced Entomology.....	651	5	13	...	...	...	...	...	...
Advanced Entomology.....	652	5	18	...	...	...
Insect Control.....	653	5	10	...	...	...	...	...	...
Insect Control.....	654	5	7
Medical and Veterinary Entomology.....	655	5	11	...	...	...
Morphology and Development of Insects.....	656	5	11	...	...	...	...	...	...
Special Problems.....	700	3-5	12	...	...	...	...	...	...	...	...	...
Special Problems.....	701	3-5	14	...	...	...	...	...	...
Special Problems.....	702	3-5	10	...	...	...
Special Problems.....	703	3-5	17
Seminary in Zoology.....	801	1	33	...	...	...	...	...	...
Seminary in Zoology.....	802	1	34	...	...	...
Seminary in Zoology.....	803	1	20
Invertebrate Zoology.....	805	5	8	...	...	...	...	...	...
Invertebrate Zoology.....	806	5	10	...	...	...
Invertebrate Zoology.....	807	5	3
Research.....	810	5	16	...	...	...	...	...	...	...	...	...
Research.....	811	3-10	25	...	...	...	...	...	...
Research.....	812	3-10	25	...	...	...
Research.....	813	3-10	31
Totals.....	150	...	...	926	...	...	777	...	...	781

* SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY

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ANNUAL REPORT

APPENDIX VI—Concluded

	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927			
Master of Science				1								1	1	2	2		2		3	3	2	3	3	2	1								1	8	6	14	15	25	32	19	8	29	36	44	27	43	54	52	50				
Master of Science (Agriculture)																		1	2		1									2	1	3	3	1																			
Master of Science (Dom. Sc.)																													1																								
Master of Science (H. F.)																				1	1	1										1																					
Master of Science in public health																																								3				1	1								
Master of Science in Social Admr.																																																					
Doctor of Philos- ophy		1										1													1			1	1																		1						
Doctor of Science												1									1					1		1	1																								
Doctor of Dental Surgery																																																					
Doctor of Medicine																																																					
Juris Doctor																																																					
Bachelor of Laws															9	18	15	16	6	23	22	21	25	17	26	20	11	15	17	26	15	16	22	10	19	18	19	18	24	17	11		15	16	44	37	51	80	65	73			
Master of Laws															2	4	2		6								2	3	1																								
Total	6	7	9	8	9	11	12	16	18	24	28	26	30	36	61	79	70	112	118	135	126	99	137	135	141	170	194	209	225	249	287	333	370	422	501	515	649	793	902	941	565	470	801	970	1054	1255	1382	1615	1723	1590			
Degrees conferred during the year															1													6	0	5	6	5	15									61	67	76	100	98	176						
Totals															80													200	209	230	255	292	348									626	537	877	1070	1152	1431	1382	1615	1723	1590		

* Statistics given prior to 1904 covered only the degrees granted at the Commencement.

APPENDIX VII

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL, AND PROFESSIONAL COURSES

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	490	496	490	551	572	630	714
Technical Courses (other Colleges, except Law).....	166	259	381	368	424	453	453	511	541	603	771	888	1039	1135	1129	1262	1280	1436	1626
Professional Courses (College of Law).....		55	67	72	65	100	132	148	191	201	220	188	166	171	179	162	153	138	132
*Graduate Students and Summer School.....	2			1		94	97	133	75	45	51	49	62	108	54	240	339	379	458
**Summer School (Shopwork).....															74	75	81	80	90
Lake Laboratory (Summer).....												19		23	32	26	19	26	32
Totals.....	305	465	642	686	745	969	1009	1150	1178	1268	1481	1547	1757	1933	1958	2316	2444	2689	3052
Names counted twice.....																159	167	216	258
Net total.....																2157	2277	2473	2794

APPENDIX VII—Concluded

	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
General Courses (Colleges of Arts, Commerce and Journalism, and Education).....	845	865	962	1009	1139	1494	1820	2198	2220	2558	3422	3802	4147	4493	5153	5519	5588	5926	
Technical courses (Other Colleges Except Dentistry, Homeopathic Medicine, Law, and Medicine).....	1643	1780	1979	2106	2392	2373	2491	2398	1884	2129	2733	3003	2982	2878	2791	2381	2416	2767	
Professional Courses (Colleges of Dentistry, †Homeopathic Medicine, Law, and Medicine).....	181	170	185	198	187	615	556	514	384	300	718	611	688	724	766	830	1189	876	
Graduate Courses (Graduate School).....	96	70	97	128	133	185	244	233	161	143	208	269	382	488	594	743	770	856	
Summer Session.....	606	617	738	575	671	926	1010	1166	918	909	1229	1391	1543	1925	2404	2724	2807	2760	
Lake Laboratory (Summer).....	36	22	28	25	32	14	19	15	14	2	11	18	19	17	15	21	19	29	
Winter Courses.....	159	183	273	227	203	187	173	187	119	121	178	86	121	87	76	81	73	211	
Extension Course in Vocational Education.....																75	59	181	
Extension Course in Commerce and Journalism.....																	295	546	
Total.....	3566	3707	4262	4268	4757	5794	6313	6711	5700	6162	8499	9180	9882	10612	11799	12824	13216	14152	
Names counted twice.....	291	268	334	299	322	462	491	523	550	437	682	867	1032	1117	1311	1289	1131	1129	
Net Total.....	3275	3439	3928	3969	4435	5332	5822	6188	5150	5725	7817	8313	8850	9495	10488	11535	12085	13023	

* Until 1896 graduate students have been included in the first three classes.

** Until 1904 summer term students in shopwork have been included with graduate students.

† The teaching of Homeopathic Medicine in this University was discontinued on and after August 15, 1922.

APPENDIX 7A

ENROLLMENT FOR ACADEMIC YEAR 1926-1927

College	Summer	Autumn	Winter	Spring	Total	Grand Totals
Agriculture	141	785	794	657	938	....
Winter Courses.....	...		211	...	211	....
						1149
Applied Optics.....	2	28	27	31	33	
						33
Commerce and Administration.....	202	1743	1674	1533	2056	
Commerce Extension.....	...	381	...	267	546	
						2602
Dentistry .....	...	231	221	215	229	
						229
Education	969	1429	1349	1365	2369	
Vocational Education.....	...	96	82	79	151	
						2520
Engineering	137	1537	1467	1334	1625	
						1625
Law	1	337	311	287	333	
						333
Liberal Arts	351	2126	1978	1792	2389	
						2389
Liberal Arts-Education.....	41	117	112	102	139	
						139
Medicine	12	316	296	290	320	
						320
Pharmacy	15	184	179	152	212	
						212
Veterinary Medicine	1	54	56	57	58	
						58
Graduate School	888	581	590	655	1483	
Graduate Ext. ....	...	18	24	14	30	
						1513
Lake Laboratory.....	29	...	...	...	29	....
						29
Totals	2789	9963	9371	8830	...	13151
Less Duplicates.....	...	91	79	80	128	128
Grand Totals	2789	9872	9292	8750	...	13023

APPENDIX VIII

DEGREES AND CERTIFICATES GRANTED DURING YEAR 1926-1927

GRADUATE SCHOOL

Acting Dean: WILLIAM LLOYD EVANS

DOCTOR OF PHILOSOPHY

Harold Bernard Alberty, Ph.B. (Baldwin-Wallace University); LL.B. (Cleveland Law School); M.A.	Columbus
Levin Bowland Broughton, B.Sc., M.Sc. (University of Maryland).....	College Park, Md.
William French Bruce, B.Sc. in Agr. M.A.....	Columbus
Henry Clyde Carlton, A.B. (Hiram College); M.A.....	Mantua
Harold Benjamin Chapman, B.A. (Yale University); A.M. (Columbia University)	Suffield, Conn.
Amos Leonard Heer, A.B. (Tri-State College); A.M. (Columbia University).....	Columbus
Ruth Loving Higgins, B.A., B.Sc. in Edu., M.A.....	Columbus
Charles Henry Hunt, B.Sc. in Chem. (The State College of Washington); A.M. (Columbia University)	Wooster
Charles Willard Jarvis, B.S. (Valparaiso University); B.A., M.A.....	Columbus
Ruth Frances Johnstin, B.A. (Pennsylvania College for Women); M.A.....	London
Frank Gilbert Keenen, B.S. (Denison University); M.Sc.....	Columbus
Harlan Clifford Koch, A.B. (Ohio University); M.A.....	Columbus
Frederick Conrad Landsittel, B.Ped., M.Sc. in Edu. (Ohio University).....	Columbus
Toh Liu, B.S. (Peking Government Teachers' College); M.Sc.....	Peking, China
Bernard Sandler Meyer, B.A., M.A.....	Columbus
Reginald Henry Painter, B.A., M.A. (University of Texas).....	Columbus
Dwight Hull Stevenson, B.A. (Park College); M.A.....	Kansas City, Mo.
(Seventeen candidates)	

MASTER OF ARTS

Earl Edson Beard, B.Sc. in Edu.....	Portage
Roselyn Henrietta Beltz, A.B. (Marietta College).....	Marietta
Roger Enoch Bennett, B.A. (Ohio Wesleyan University).....	South Charleston
Nellie Berman, B.S. (University of Cincinnati).....	Cincinnati
Wilfred Ellsworth Binkley, B.S. (Ohio Northern University); B.A. (Antioch College).....	Ada
Glenn William Blaydes, A.B. (Indiana University).....	Columbus
Julius Edward Bohn, A.B. (Heidelberg University).....	Kenton
Samuel Stevens Brooks, A.B. (University of Maine).....	Machias, Maine
Dorothea Ruth Buckley, B.A.....	Columbus
Grace Cochran Caley, A.B. (Baldwin-Wallace College).....	Berea
Nathan Goff Carder, A.B. (Marietta College).....	Ravenswood, W. Va.
Ralph Earl Crow, B.S. (Mount Union College).....	Beach City
Edith Opal Cuthbert, B.S. in Edu. (Miami University).....	Cleveland
Ralph Currier Davis, M.E. (Cornell University).....	Columbus
Robert Cook Dickson, B.A.....	Columbus
Glenn Drummond, A.B. (Ohio Northern University).....	Bellefontaine
Benton Raymond Duckworth, B.S. (Ohio Northern University).....	Greenfield
Rush E. Elliott, A.B. (Ohio University).....	Athens
Creamus McGlouthen Evans, B.E.....	Columbus
John Dunn Farmer, B.A. (University of West Virginia).....	Bath, W. Va.
Charles Alfred Ford, B.Sc. in Soc. Adm.....	Columbus
Violet Hermine Foster, A.B. (University of Michigan).....	Hudson, Mich.
Ben Floyd Fulks, B.S. in Edu. (Ohio University).....	Mansfield
Pansy May Gabriel, B.Sc. in Edu.....	Marysville
Virgil Leland Hansley, B.A.....	Sugar Grove
Winfield Walter Heckert, B.S. in Edu. (Miami University).....	Oxford

Charles Ernest Hoel, B.S. in Edu. (Ohio Northern University).....	Tippecanoe City
Alice Berniece Hunter, A.B. (Otterbein College).....	Lancaster
Alma Adelia Keeler, B.Sc. in Edu.....	Columbus
Homer James Kohli, A.B. (Bluffton College).....	Medina
Walter Clark Kramer, A.B. (Oberlin College).....	Willard
Marguerite Ella Kyle, B.S. (Monmouth College).....	Waldo
John Herrold Lancaster, B.S. (Ohio Wesleyan University).....	Nelsonville
Hazel Marie Long, B.Sc. in Edu.....	Ostrander
Harold Lorin McMillan, B.Sc. in Edu.....	Columbus
Charles Lehman Marsh, B.S. (Valparaiso University).....	Youngstown
Edward Glenn Mason, A.B. (Defiance College).....	Ashland
Vernon Lemont Miller, B.A.....	Troy
Richard Clyde Minor, B.A.....	Columbus
Marshall C. Murray, A.B. (Miami University).....	Oxford
Morris, Muskat, B.A.....	Marietta
Jessie Ruth Myers, B.A. (Western Reserve University—College for Women).....	Euclid
Paul Kennedy Noel, A.B. (Otterbein College).....	Portsmouth
Alice Cary Offerman, B.Sc. in Edu.....	Columbus
William Daniel Overman, B.Sc. in Edu.....	Columbus
Louis John Paradiso, B.S. (Rutgers University).....	Passaic, N. J.
Robert Dean Patton, B.Sc. in Bus. Adm.....	Columbus
Alvin Luther Perkins, B.A. (Bethany College).....	Bridgeport
Charles Elijah Pieters, A.B. (Lincoln University).....	Columbus
Charles Donald Pitts, Jr., B.Sc. in Edu.....	Columbus
Martha Caroline Pollock, A.B. (Vassar College).....	Boston, Mass.
Evelyn Grace Richmond, B.Sc. in Soc. Adm.....	Dayton
Frank Ramage Schofield, B.A. (Western Reserve University).....	Burton
Vernon Opal Shelhamer, B.A., B.Sc. in Edu.....	Columbus
Dorwin Deloss Sims, B.A.....	Groveport
Eugene Hulse Sloane, B.A.....	Logan
Frances Marian Smith, B.A.....	Columbus
Marie Geneva Stephenson, B.A.....	Newark
Charles Arthur Stokes, B.S. (Lombard College).....	Columbus
Ruth Charlene Teeters, B.S. in Edu. (Ohio University).....	Washington C. H.
Hiram Frederick Thut, B.A. (Bluffton College).....	Lima
Benjamin Finley Timmons, A.B. (Ohio University).....	Columbus
Horace William Troop, A.B. (Otterbein College).....	Dayton
Roy Roland Ullman, A.B. (Ohio University).....	Athens
Cecil Minos Ward, B.S. in Edu.....	East Liverpool
John Wallace Whitmer, Ph.B. (The College of Wooster).....	Toledo
Vestal Madeline Williams, B.Sc. in Edu.....	Columbus
Clair Byers Wilson, B.S. (Grove City College).....	California, Pa.
Isabel Ross Wilson, B.Sc. in Edu.....	Akron

(Sixty-nine candidates)

MASTER OF SCIENCE

Errol Stanley Bird, B.S. (Cornell University).....	New York, N. Y.
Emmett Theodore Rodenberg, B.S. (Capital University).....	Columbus
Albert Boggs, B.A.....	Lexington
Wendell Holmes Camp, B.S. (Otterbein College).....	Dayton
Mary Martha Carter, B.A.....	Hillsboro
Donald Roop Clippinger, B.S. (Otterbein College).....	Westerville
Lester Herman Colbert, B.E.E.....	Cleveland
Marian William Hazen, B.S. (Iowa State College).....	What Cheer, Ia.
Lawrence Cornelius Kapp, B.Sc. in Agr.....	Hamilton
Elsa Tugela Kraemer, B.S. in H.E. (Colorado Agricultural College).....	Denver, Colo.
Will Harry Lipscombe, B.S. (Florida State College for Women).....	Akron
Harley Kenneth Lyons, B.S. (Muskingum College).....	New Concord
Norton Ewart Plymale, B.Sc. in Agr.....	Kenova, W. Va.
James Ellis Powell, B.S. (Denison University).....	Granville
William Russell Pyle, B.S. in M.E. (Purdue University).....	Wilmington
Samuel James Schilling, B.Sc. (University of Wisconsin); D.V.M.....	Fayetteville, Ark.
Morris M. Schlosberg, B.Sc. in Agr.....	Atlantic City, N. J.

Pauline Walker Snyder, B.Sc. in Edu.....	Columbus
James Alfred Thompson, B.A.....	Brink Haven
Theodore Leslie Vanderploeg, A.B. (Hope College).....	Chicago, Ill.
James Carl Vaughn, A.B. (Howard College).....	Columbus
Ernest C. Wilkes, A.B., B.S. (Ohio University).....	Columbus

(Twenty-two candidates)

CANDIDATES FOR TWO DEGREES

Carl William Iuler.....	Chillicothe
Bachelor of Arts	
Doctor of Medicine	
Frank Gordon Lawyer.....	Cambridge
Bachelor of Science	
Doctor of Medicine	
Mary Margaret Smith.....	Worthington
Bachelor of Arts	
Bachelor of Science in Education	
Faustina Edith Townsend.....	Cleveland
Bachelor of Arts	
Bachelor of Science in Education	

(Four candidates)

COLLEGE OF AGRICULTURE

Acting Dean: WILLIAM MORTON BARROWS

BACHELOR OF SCIENCE IN AGRICULTURE

Walter Nicholas Bangham.....	Wilmington
William Frank Barker.....	Celina
Perry Bovee.....	Kingsville
Howard Newton Grice.....	Greenfield
David Goodsell Hall.....	Bryan
Joseph Jesse Hyman.....	Cincinnati
William Walker Lanning.....	Dresden
Henry Russell Moore.....	Frazeyburg
Layton Anderson Pretz.....	Columbus
Ross McKinley Work.....	Galena

(Ten candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Elizabeth Atkins Edelen.....	Parkersburg, W. Va.
Evelyn Margaret Lackey.....	Jamestown
Charlotte Rose Meyer.....	Columbus
Bernardine Caroline Smith.....	Columbus
Florence Ethel Southard.....	Columbus
Mary Louise Willison.....	Columbus

(Six candidates)

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Acting Dean: MARSHALL BLAKEMORE EVANS

BACHELOR OF ARTS

Margaret E. Bazler.....	Columbus
Margaret Jane Beers.....	Newcomerstown
Edna Marie Blair.....	Kenova, W. Va.
Mary Kathryn Brannan.....	Columbus
John Clark Bright.....	Keyser, W. Va.
Gwendolen Edith Cadley, B.Sc. in Edu.....	Columbus

Alice Josephine Cantwell.....	Columbus
Lettie Clark Chapman.....	Hartford
Milford Lon Clabaugh.....	McCutchenville
Dorothea Katherine Closs.....	Cincinnati
Esther Mae Cool, B.Sc. in Edu.....	Columbus
Wilson Sloan Coon.....	Urbana
Berne Davis	Columbus
Dorothy Ann Doran.....	Akron
Charles Eugene Edmiston.....	Columbus
Paul Nowell Elbin.....	Cameron, W. Va.
Marjorie Gaile Ewing.....	Cleveland
Ralph Waldo Findley.....	Cleveland
Paul Eugene Fitzgerald.....	Old Fort
Florence Commack Garland.....	New Orleans, La.
Margaret Young Green.....	Sault Ste. Marie, Can.
Manuel Greenstein	Warren
Blanca Sara Hambleton.....	West Jefferson
Edward Dewey Harbert.....	Bellefontaine
Raymond Silas Howell.....	Barnesville
Leo Harry Isenberg.....	Youngstown
* Carl William Iuler.....	Chillicothe
Francis David Keane.....	Fresno
Attie Kear.....	Wharton
Elizabeth Kiou.....	Mt. Sterling
Edith Elizabeth Lakin, B. Sc. in Edu.....	Columbus
Edward Peter Lawrence.....	Columbus
Nellie Black Merriman.....	Gallipolis
Bertha Nell Metzger.....	Martins Ferry
Marie Elliott Mill, B. Sc. in Edu.....	Zanesville
Alberta Irene Milton.....	Cleveland
George Lehman Morr.....	Ashland
Richard Madison Motley.....	West Middletown
Thelma Rich.....	Columbus
Jacob Rosofsky.....	Columbus
Merritt Campbell Schultz.....	Johnstown, Pa.
Lowell Cline Smith (with honors).....	Decatur, Ind.
*Mary Margaret Smith.....	Worthington
Paul David Smith.....	Prospect
Lewis Behymer Stephan.....	Lorain
* Faustina Edith Townsend.....	Cleveland
Lucy Frances Wiatt.....	Granville
Oakley Ernest Wiseman.....	Dyesville

(Forty-eight candidates)

BACHELOR OF SCIENCE

* Frank Gordon Lawyer.....	Cambridge
Kenneth Francis Lowry.....	New Madison

(Two candidates)

COLLEGE OF COMMERCE AND JOURNALISM

Dean: CLYDE O. RUGGLES

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

William Frederick Andrews.....	Bristol, Tenn.
Samuel James Barrick.....	Columbus
Kenneth Lloyd Beckwith.....	Malta
Frederick Leonard Bennett.....	Utica
Jerry Harold Bertolette.....	Bloomville
Ronald Edson Bixler.....	Wadsworth

* Two Degrees

George Albert Davis, Jr.	Columbus
Jay Willard Eby	Smithville
John George Flautz	Cleveland
Robert Mark Gettinger	Columbus
Norman William Gilsdorf	Columbus
Sara Virginia Gorrell	Cleveland
Frederick Tasney Greene	Columbus
Elbert Burch Hetherington	Columbus
Norman Frederick Hull	Ft. Recovery
Howard Edward Johnson	Cleveland
Russel George Kinnel	Columbus
Joseph Lawrence Lightner	Cleveland
Man Leung Lui	Cleveland
Robert William McLaughlin	Cortland
Robert Elvas McKee	Melroy, Ind.
Hugh Lester Mearan	Ironton
William Henry Rabberman	Forest
Henry Herbert Reidelbach	Columbus
Harry Buckingham Robinson	Camp Dennison
Virgil Eastman Ruhl	Fredericktown
Francis Gordon Shoemaker	Akron
Darrel Ostrander Smith	Columbus
Carl Dudley Varvel	Kenton
George Robert Wilson	Portsmouth

(Thirty candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Harry Chester Hull	Dayton
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(One candidate)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Louise Jean Hirschhorn	St. Louis, Mo.
Marian Frances Warner	Columbus

(Two candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

E. Venita Amsler	Columbus
Mary Ruth Banks	Columbus
Homer DeWitt Barbe	Lockwood
Thyra Bartlett	Mt. Vernon
Joseph Floyd Bemiller	Lucas
Helen Everett Bennett	Columbus
Ruth Irene Booher	Marietta
Mary Fleming Bowers, B. Sc. (Dom. Sci.)	Columbus
Lela Imogene Burdette	Dennison
Adelaide R. Burdge	Columbus
Ruth Suzanne Collins	Toledo
Harold Stephen Gustav Defenbaugh	Tarlton
Dorothy Elizabeth Gall	Hammondsville
Paul Staley Goodell	Columbus
Ercell Louise Guy	Plain City
Bernett Vina Harris	Columbus
Ruth Loretta Hemmerle	Chillicothe
Lydia Augusta Hollman	Green Bay, Wis.
Mary Elizabeth Holmes	Washington, C. H.
Henry Gould Jones	Oak Hill

THE OHIO STATE UNIVERSITY

Franklin Pierce Kaiser.....	Delaware
Elnora Kautz.....	Columbus
Lucina Mabel Keane.....	Fresno
Florence Catherine Kempf.....	West Lafayette
Dorothy Ruth Kiger.....	Columbus
Emma Ethel Layner.....	Columbus
Ernest Hildebrant Leeka, B. Sc. (Wilmington College).....	Columbus
Geraldine Luella Long.....	Columbus
Leonard Charles Lund.....	Minneapolis, Minn.
Dorothy Lavinia Lyon.....	Alliance
Calvin Armstrong McCoy, B.A.	Seville
Irma Clara Merz.....	Columbus
Myra Jeannette Neunherz.....	Columbus
Eleanor Irene Park.....	Chillicothe
Arthur Martin Pikor.....	Cleveland
Mahlon Armand Povenmire.....	Columbus
Ruby Jean Reay.....	Columbus
Rose Katherine Richardson.....	Cleveland
Helen Louise Rudy.....	Columbus
Harry Lewis Shapiro.....	Columbus
James Norman Shepherd.....	Kent
* Mary Margaret Smith.....	Worthington
Thelma Augusta Spear.....	Columbus
Lorene Elizabeth Terhune.....	Columbus
Vada Thompson.....	Columbus
Earl Harold Ticknor.....	Painesville
* Faustina Edith Townsend.....	Cleveland
Elden Lloyd Wheeler.....	Lily Chapel
Ruth Liberty White.....	Columbus
Omah Florence Wilmoth.....	Bucyrus
Charles Sumner Wiseman.....	Columbus
Clifford Edwin Wolfe.....	East Liverpool
Lewis Payne Woodson, B.A. (Wilberforce University).....	Wilberforce

(Fifty-three candidates)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF ELECTRICAL ENGINEERING

Walter Francis Roberts.....	Columbus
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(One candidate)

BACHELOR OF MECHANICAL ENGINEERING

Raymond William Hogan (as of the Class of June, 1924).....	Cleveland Heights
George Alden Limbocker.....	Springfield
Lewis Taylor Ream.....	Akron

(Three candidates)

BACHELOR OF ENGINEERING

Richard Edward Wolfe.....	Clyde
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(One candidate)

COLLEGE OF MEDICINE

Dean: EUGENE F. MCCAMPBELL

DOCTOR OF MEDICINE

Rawley Ernest Chambers, B.A.....	Columbus
Oscar Ludlum Coddington, B.A.....	Columbus

*Carl William Iuler.....	Chillicothe
Anthony Raymond Jirus.....	Cleveland
Ralph Anderson Laughlin, B.A. (Marietta College); B.S. (Muskingum College)....	Cambridge
*Frank Gordon Lawyer.....	Cambridge
Lee Spitler Lenz.....	Dayton

(Seven candidates)

SUMMARY OF DEGREES

Graduate School.....	108
College of Agriculture.....	16
College of Arts, Philosophy, and Science.....	50
College of Commerce and Journalism.....	33
College of Education.....	53
College of Engineering.....	5
College of Medicine.....	7
	<hr/> 272
Degrees—Women.....	97
Degrees—Men.....	175
	<hr/> 272
Candidates for degrees.....	268
Candidates receiving two degrees.....	4
	<hr/> 272

AUTUMN QUARTER—1926

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

DOCTOR OF PHILOSOPHY

Marvin Achterhof, A.B. (Hope College); M.Sc.....	Zeeland, Mich
Homer Columbus Thompson, B.Sc. in H. and F., M.Sc.....	Ithaca, N. Y.

(Two candidates)

MASTER OF ARTS

Edwin Jacob Bognar, B.S. (Mount Union College).....	Alliance
Charles Monroe Coffin, B.A.....	Waynesfield
Carl Adam Frey, A.B. (Ohio University).....	Athens
Charles S. Harkness, A.B. (Otterbein College).....	Cygnat
Oliver Nash Johnson, B.A. (Ohio Wesleyan University).....	Galena
Marion Henry Landis, B.A.....	Columbus
William Llewellyn McAlpine, B.S. in Edu. (Kent State Normal College).....	Columbus
John Andrew Michael, B.A. (Western Reserve University).....	Eaton
Ada Michener, A.B. (Mount Holyoke College).....	Waynesville
Pauline Margaret Prichard, A.B. (Denison University).....	Richwood
Sara Julia Ryan, B.Sc. in Edu.....	Columbus
Foreman Ward Slager, B.Sc. in Phar.....	Columbus
Ralph Joseph Slattery, B.A. (Lawrence College).....	Appleton, Wis.
Robert Vassil Tallman, B.A.....	Columbus
Willard Hayes Yeager, B.A.....	Wooster

(Fifteen candidates)

* Two Degrees

THE OHIO STATE UNIVERSITY

MASTER OF SCIENCE

Bernard Phillips Hanan, B. S. (Baldwin-Wallace College).....	Rocky River
(One candidate)	

CANDIDATES FOR TWO DEGREES

Joseph Francis Kennedy.....	New Holland
Sarah Christine McKeever.....	Columbus
(Two candidates)	

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Edna Lee Borchers.....	Lancaster
Robert Thomas Bradley.....	Woodstock
Franklin Bolin Burley.....	Pleasant Valley
Harold Elijah Collins.....	Bowling Green
Llewelyn Archibald Cramer.....	Columbus
William Edson Defenbaugh.....	Tarleton
Roy Martin Durr.....	Bucyrus
Edwin Elbert Heizer.....	Westerville
Harry Pierpont Hummel.....	Union City, Ind.
Seymour Jay McGuire.....	Grove City
Franklin Clifford Smith.....	Groveport
Kenneth Frost Smith.....	Hillsboro
Clifton Henry Wenig.....	Haskins
William Arthur Youmans.....	Painesville
(Fourteen candidates)	

BACHELOR OF SCIENCE IN HOME ECONOMICS

May Aungst Blanchard, B.S. (University of Pittsburgh); B.A., B.Sc. in Edu.....	Columbus
Bernice Rhoda Dennis.....	Mt. Sterling
Isabel Fuller.....	Dayton
Burnis Ruth McKinstry.....	Caledonia
Mary Cleora Surbey.....	North Canton
Bernice Maria Trabue.....	Camp Chase
(Six candidates)	

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

BACHELOR OF ARTS

Louise Evelyn Asmus.....	Columbus
John Burke Coppock.....	Columbus
Ida Ruth Dew.....	Princeton, N. J.
Mary Ida Disher.....	Toledo
Harold Vincent Gaskill.....	Columbus
Susie Nelsonia Goode.....	Columbus
John Mills Haynes.....	Columbus
Ira Helser Jenkins.....	Columbus
* Joseph Francis Kennedy.....	New Holland
* Sarah Christine McKeever.....	Columbus
Burlin Maxwell.....	Salem, W. Va.

* Two Degrees

Norris Earle Murphy.....	Wamsley
Helen Katharine Niele, B.Sc. in Edu.....	Zanesville
Joseph Albert Provenza.....	Lorain
William Morgan Reynolds.....	Columbus
Dorothy Betty Rosen.....	Columbus
Marjorie Knowlton Snively.....	Columbus
Millard Curtiss Swingle.....	Columbus
Edward Burl Van Voorhis.....	Ravenna
Wayne Doran Wardwell.....	Cincinnati
John Joseph Wenzke.....	Celina

(Twenty-one candidates)

COLLEGE OF COMMERCE AND JOURNALISM

Dean: CLYDE ORVAL RUGGLES

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

John Frederick Beese.....	Uniontown
Lawrence Beatty Brother.....	Columbus
Edward Joseph Cooney.....	Columbus
David Bertram Ewing.....	Columbus
Henry Clay Harrison.....	Columbus
Arthur Richter Helf.....	Harrisburg, Penna.
Charles Adolph Michael.....	Bucyrus
Harold Scherger.....	Ottawa
Russell Le Vake Von Stein.....	Coraopolis, Penna.

(Nine candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Jeanette Ralphine Clarke.....	Youngstown
Mary Virginia Sheets.....	Cleveland

(Two candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Margaret Frances Alge.....	Arlington
Miriam Gertrude Arnett.....	Botkins
Ernestine Idell Ashbaugh.....	Columbus
Parker Zaner Blosier.....	Columbus
Louise Lulu Canning.....	Columbus
Mary Edra Champe.....	Columbus
Nettie Vida Craddock.....	Wellington
Ruth Eleanor Esler.....	Elyria
Martha Richards Gutches.....	Columbus
Ileta Wert Houston.....	Mansfield
Ting Ihsing.....	Fu-Yang, Anhui, China
* Joseph Francis Kennedy.....	New Holland
Katherine Virginia Kreps.....	Columbus
George Nicholas Kummer.....	Uhrichsville
Lois Elinor Lawrence, B.A.....	Columbus
* Sarah Christine McKeever.....	Columbus
Lillian Sarah Michaelis.....	Marietta
Georgia Lillian Utter.....	Columbus
Janette Alma Waring.....	Mansfield

* Two Degrees

Margaret Gertrude Warner.....	Utica
Frank Curtis Williams.....	Miami, Fla.
Pauline Caroline Wittwer, B.A. (Ohio Wesleyan University).....	Columbus
(Twenty-two candidates)	

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF ARCHITECTURE

Robert Daniel Ayers.....	Celina
(One candidate)	

BACHELOR OF ARCHITECTURAL ENGINEERING

Emil August Katterheinrich (as of the Class of 1924).....	New Knoxville
Rudolph Milner.....	Toronto
Edward Frank Simes, Jr.....	Columbus
(Three candidates)	

BACHELOR OF CERAMIC ENGINEERING

Kuno Ming Yu Chiu.....	Kiangsi, China
Robert Wesley MacDonald.....	Columbus
(Two candidates)	

BACHELOR OF CIVIL ENGINEERING

Harold Albert Bennett.....	Cardington
Charles Kalman Bergle.....	Cleveland
Ernest Christian Marmet.....	Columbus
Wallace James Osgood.....	Hiram
Joseph Anthony Tomsic.....	Lorain
(Five candidates)	

BACHELOR OF ELECTRICAL ENGINEERING

Leland Miesse Frederick.....	Cireleville
Fabian Walter Marquette.....	Columbus
(Two candidates)	

BACHELOR OF MECHANICAL ENGINEERING

Raymond Thompson De Witt.....	Columbus
(One candidate)	

BACHELOR OF METALLURGICAL ENGINEERING

Ernest Gavin Gerhart, Jr.....	Toledo
Roger Clark Quick.....	Springfield
Edwin Rippey Stevens.....	Cincinnati
(Three candidates)	

BACHELOR OF ENGINEERING IN MINING

Ralph Anthony Packard.....	Columbus
Herbert H. Ross.....	McConnelsville
(Two candidates)	

COLLEGE OF LAW

Acting Dean: ALONZO H. TUTTLE

BACHELOR OF LAWS

Harold Francis Adams, B.A.....	Beaver
Donald Austin Dietsch.....	Findlay

Herman Donald Emerman.....	Canton
Floyd Merle Eynon.....	Lorain
Lewis Burton Henderson, B.S. (Lafayette College).....	Martins Ferry
William Ernest McKinley, B.A.....	East Liverpool
Karl Edward Mollenberg, B.S. in Edu. (Ohio Northern University); A.M. (Wittenberg College)	Portage
Charles Hamilton Ross, B.A. (Washington and Lee University).....	Columbus
Carroll Francis Wasserman.....	Fremont
(Nine candidates)	

COLLEGE OF MEDICINE

Dean: EUGENE F. MCCAMPBELL

DOCTOR OF MEDICINE

George Harold Cope, B.Sc.....	Marion
Myron Hopkins Powelson, B.Sc.....	Etna
John Herbert Bryce Scott, A.B. (Geneva College).....	Columbus
(Three candidates)	

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

BACHELOR OF SCIENCE IN PHARMACY

William Blasius Nagy.....	Cleveland
(One candidate)	

PROFESSIONAL CERTIFICATES

CERTIFICATE OF PHARMACEUTICAL CHEMIST

Abe Alper.....	Cleveland
William Horn Arnott.....	Akron
Milton George Benes.....	Cleveland
Harold Allen Davis.....	Glouster
Max Brown Gordon.....	Columbus
Leland Leslie Harris.....	Massillon
Mary Estella Kotecki.....	Cleveland
Russell Rizzo.....	Rocky River
Stanley Koos Schrock.....	Delta
Sidney Weisberg.....	Cleveland
(Ten candidates)	

SUMMARY OF DEGREES AND CERTIFICATES

Graduate School.....	18
College of Agriculture.....	20
College of Arts, Philosophy, and Science.....	21
College of Commerce and Journalism.....	11
College of Education.....	22
College of Engineering.....	19
College of Law.....	9
College of Medicine.....	3
College of Pharmacy (1 degree) (10 certificates).....	11

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Degrees and Certificates—Women.....	39
Degrees and Certificates—Men.....	95

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Candidates for degrees and certificates.....	132
Candidate receiving two degrees.....	2
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WINTER QUARTER—1927

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

DOCTOR OF PHILOSOPHY

F. Herrick Conners, B.Sc. (New York State College of Teachers) ; M.A.....	Columbus
Alfred William Stewart, B.S. (Ohio University) ; M.A.....	Hilliards
(Two candidates)	

MASTER OF ARTS

Mary Alleta Albaugh, B.A., B.Sc. in Edu.....	Columbus
Glenn Ross Barr A.B. (Allegheny College).....	Oberlin
Henry Morton Bodfish, B.Sc. in Bus. Adm.....	Columbus
Elvin Frank Donaldson, B.Sc. in Bus. Adm.....	Columbus
Walter Donald Gisler, A.B. (Defiance College).....	Napoleon
Ting Chi Lu, B.A. (The College of Wooster).....	Peking, China
Virginia Harris Neff, A.B. (De Pauw University).....	Columbus
Lawrence Edward Snyder, A.B. (Wittenberg College).....	Columbus
Kuo-Hua Sun, B.Sc. in Edu.....	Shantung, China
Mary Talbot, B.S. (Denison University).....	Tiffin
Jessie Lauretta Wells, B.S. in Edu. (Ohio University).....	McConnelsville
Clara Snell Wolfe, A.B. (Oberlin College).....	Columbus
(Twelve candidates)	

MASTER OF SCIENCE

Harry Atwood, B.Sc. in Agr.....	Hebron
Winston Edson Dunham, B.Sc. in Agr. (University of Vermont).....	Columbus
Charles Dillon Dunlap, B.Sc. in Agr.....	Vanatta
Loren Franklin Steiner, B.Sc. in Agr.....	Wapakoneta
Frank Charles Westendick, B. Cer. E.....	Massillon
(Five candidates)	

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Herman Otto Armbruster.....	Columbus
Russell Clyde Bane.....	Gallipolis
David Clark Beall.....	Mentor
Dale Grigsby Bishop.....	Dayton
Clarence Merl Boyer.....	Ashland
Wilbur Harold Bruner.....	Delta
Homer Albert Crecelius.....	Milan
Albert Bartlett Davis.....	Belle Valley
Bruce Raymond Davisson.....	Mechanicsburg
Loren Alexander Edmond.....	Cypress, Ind.
Wilbur Leland Fohl.....	Middlebranch
Roscoe Whitlock Franks.....	Whitehouse
John Stanley Humes.....	Delaware
Kenneth Frederick Indoe.....	Medina
William McKinley Moore.....	Nellie

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Ray Waldo Myers.....	Vaughnsville
Jack Burdett Pentz.....	Columbus
Willis Porter Stoops.....	Wooster
Charles Rochester Tom.....	Camp Chase
Herbert Warren Ullery.....	Covington

(Twenty candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Dorothy Changnon Alexander.....	Cleveland
Margaret Theresa Coseo.....	Columbus
Gladys Hinton Lord.....	Columbus
Lenore Maxine Mills.....	Athens
Clara Stewart.....	Columbus

(Five candidates)

COLLEGE OF LIBERAL ARTS

Acting Dean: WILBUR HENRY SIEBERT

BACHELOR OF ARTS

Imogene Henrietta Atcheson.....	Columbus
Paul Gregory Benedum.....	Cameron, W. Va.
Margaret Janet Bowman.....	Columbus
Mary Helen Boyers.....	Marietta
Catherine Louise Chester.....	Columbus
Clarence Henley Cramer (with honors).....	Columbus
George Jay Deeter.....	Bradford
Dudley Peters Glick.....	Columbus
Anna Maclay Green.....	Columbus
William Edward Hadelor.....	Dayton
Homer Almond Hood.....	Toledo
Wen-Wei Huang.....	Canton, China
Lydia Anna Jahn (with honors and with high distinction in Zoology).....	Mantua
Charles Ernest Pauck.....	St. Marys
Phyllis Jeanne Price.....	Columbus
Phyllis Annette Raabe.....	Lakewood
Sheldon Charles Robertson.....	Richwood
Jacob Edward Schaefer.....	Columbus
Max Schwebel.....	Youngstown
Elizabeth Audrey Shannon (with honors).....	Columbus
Louis Theodore Spohr.....	Columbus
Ruth Harriett St. John.....	Columbus
John Swartz.....	Elba, N. Y.
Ruth Adams Van Zandt.....	Columbus
Mary Thelma Walley.....	Columbus
Ellen Marian Weinland.....	Columbus
Wei Yang.....	Shensi, China
Harry Zevi Zwelling.....	Cleveland

(Twenty-eight candidates)

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: CLYDE ORVAL RUGGLES

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Martha Matilda Adams.....	Clarksburg
Russel Burton Alexander.....	Cleveland
Forest Wilkinson Berry.....	Bethesda
Edgar Lewis Buck.....	Delaware
Sowo Lien Cheng.....	Shanghai, China

John Orr Disher.....	Toledo
Ralph Newell Evans.....	Columbus
Everett Wayne Farnsworth.....	Sullivan
Joseph Benjamin Flora.....	Tippecanoe City
Wilfred Wei-Fan Hsueh.....	Anhui, China
Wesley Kai-Hua Kuang.....	Shanghai, China
Fred Hunter Linville.....	Columbus
Clarence Blake McCray.....	Duval
Meredith Canby Price.....	Norwalk
John Kenneth Raabe.....	Fort Jennings
Edward Haskell Raine.....	Rainelle, W. Va.
Edmund Cowl Redman.....	Columbus
Francella Virginia Reid.....	Warren
Elton Henry Schulenberg.....	New Bremen
Curtiss Clinton Spence.....	Columbus
Frank Lynn Taylor.....	Congo
Paul Arthur Wagner.....	Lakewood

(Twenty-two candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Lawrence Ruel Connor.....	Columbus
Frank Edington Fenton.....	Columbus
Evelyn Elizabeth Postle.....	Columbus

(Three candidates)

COLLEGE OF EDUCATION

Acting Dean: BOYD HENRY BODE

BACHELOR OF SCIENCE IN EDUCATION

Mable Christine Brunk, R.N.....	Mansfield
Cora Edith Campbell.....	Columbus
Kenneth Vivian Clarke.....	Columbus
Edith Bernett Coleman.....	Columbus
Anna Irene Emswiler.....	Kirkersville
Helen Amalie Fornason.....	Cleveland
Nancy Cain Gaffney.....	Cleveland
Lillian Jeanette Marsh.....	Columbus
Helen Viola Mullins.....	Columbus
Helen Gertrude Saum.....	Cleveland
Ralph Walsh Spence.....	Blanchester
Lawrence Everett Taber.....	Edison
Dolores Wise.....	Cleveland

(Thirteen candidates)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF CERAMIC ENGINEERING

Edward Lentz, Harcourt.....	Columbus
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(One candidate)

BACHELOR OF CIVIL ENGINEERING

Edwin Lewis Beriswell.....	Berea
Robert Elwood Deam.....	Springfield
Edward You Fung.....	Columbus
Harold Harlan Mace.....	Warren
Edwin Jacob Will.....	Columbus

(Five candidates)

BACHELOR OF MECHANICAL ENGINEERING

Marcus Elden Shoup.....	New Carlisle
Charles William Smith.....	Columbus
(Two candidates)	

BACHELOR OF METALLURGICAL ENGINEERING

Paul Harold Armstrong.....	Hicksville
Richard Christian Diehl.....	Defiance
(Two candidates)	

COLLEGE OF LAW

Acting Dean: ALONZO H. TUTTLE

JURIS DOCTOR

Carter Coslet Kissell, B.A.....	West Unity
(One candidate)	

BACHELOR OF LAWS

John Harvey Crow.....	Beach City
Charles William Leftwich.....	Catlettsburg, Ky.
Anthony Albert McCarthy, B.A. (University of Dayton).....	Dayton
Charles Peiros.....	Steubenville
Merle Clarence Reagle, A.B. (Ohio University).....	East Palestine
(Five candidates)	

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

BACHELOR OF SCIENCE IN PHARMACY

William Price Jenkins.....	Dayton
Isadore Thall.....	Columbus

PROFESSIONAL CERTIFICATES

CERTIFICATE OF PHARMACEUTICAL CHEMIST

Paul Schuler Bartchy.....	Salem
Walter Chesses.....	Cleveland
Don Hanna.....	Columbus
Emmett Emerson Hardy.....	Xenia
George Judson Harris.....	Bucyrus
Edwin Leroy Knowles.....	Alliance
William Robert Moore.....	Columbus
William Kimmel Munsey.....	Columbus
Ormond Murstein.....	Elyria
Paul Patrick Myers.....	Youngstown
Joseph Mark Newland.....	Dayton
John Cyril Pollock.....	Cleveland
Cecil Irwin Wiles.....	Centerburg
(Thirteen candidates)	

SUMMARY OF DEGREES AND CERTIFICATES

Graduate School.....	19
College of Agriculture.....	25
College of Liberal Arts.....	28
College of Commerce and Administration.....	25

College of Education.....	13
College of Engineering.....	10
College of Law.....	6
College of Pharmacy (2 degrees) (13 certificates).....	15
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Degrees and Certificates—Women.....	36
Degrees and Certificates—Men.....	105
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SPRING QUARTER—1927

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

DOCTOR OF PHILOSOPHY

Harold James Barrett, AB., M.S., (West Virginia University).....	Columbus
George Wayland Bennett, B.S. (Denison University); M.S. (Washington and Jefferson College)	Bala-Cynwyd, Penna.
Harold Lamont Borst, B.S.A., M.S. (University of Minnesota).....	Columbus
Ruth Carson, Ph.B. (The College of Wooster); M.A.....	Toronto
William Robert Cornthwaite, A.B. (De Pauw University); M.A.....	Cambridge City, Ind.
Rollin Ray Durant, B.A., M.Sc.....	Columbus
Edwin Poe Durrant, A.B. (Otterbein University); M.A.....	Columbus
Harry Ben Dystra, A.B. (Hope College); M.Sc.....	La Grange, Ill.
Roscoe Hurn Eckelberry, B.Sc. in Edu., M.A.....	Columbus
Jessie May Ferguson, A.B. (University of Chattanooga); B.Sc. in Edu., M.A.....	Columbus
Ralph Holmes Ferguson, B.Ch.E., M. Sc.....	Jamestown
Henry Grunsky Fisk, B.S. (Occidental College); M.S. (University of Illinois) ..	Los Angeles, Cal.
Tadashi Fujimoto, B.S. (Bates College); M.A. (Connecticut Wesleyan University)	Tokushima, Japan
Harlan Henthorne Hatcher, B.A., M.A.....	Columbus
Robert Franklin Heald, B.Ch. E.; M.S. (University of Illinois).....	Columbus
James Edwin Hutchman, B.A. (Muskingum College); M.Sc.....	Columbus
Frieda Annetta Kiefer, B.A.; A. M. (University of Michigan).....	Dayton
Warren Alvin Kramer, B.S. (University of Mississippi); M.S. (Louisiana State College)	Columbus
Lois Lampe, B.Sc. in H.E., B.A., M.Sc.....	Washington C. H.
Pedro Tamesis Orata, B.S. M.S. (University of Illinois).....	Urdaneta, Pangasinan P. I.
Earl Bennett South, B.S. in Edu. (Ohio University); M.A.....	Columbus
Lorin Andrew Thompson, Jr., B.A., M. A.....	Columbus
George Henry VanderBorgh, A.B. (Hope College); M.Sc.....	Columbus
John Harold Wilson, A.B. (Oberlin College); A.M. (Syracuse University).....	Columbus
Charles Ling Wu, A.B. (University of Wisconsin); M. A. (University of Missouri)	Changshu, Kiangsu, China
(Twenty-five candidates)	

MASTER OF ARTS

Nina Marie Allen, A.B. (Wittenberg College).....	Milledgeville
Margaret Stewart Bargar, B.A., B.Sc. in Edu.....	Columbus
Eric Franklin Bell, A.B. (Ohio University).....	Athens
Ruth Eleanore Boal, B.A., B.Sc. in Edu.....	Columbus
Alta Johnson Brady, A.B. (Indiana University).....	Columbus
Thomas Newton Brown, B.A.....	Columbus
Albert John Buckenmyer, B.A.....	Toledo
Justin Lloyd Bussies, A.B. (Hope College).....	Holland, Mich.
Merritt Madison Chambers, B.A. (Ohio Wesleyan University).....	Mt. Vernon
Benjamin Chin, A.B. (University of Arizona).....	Kao-An, Kiangsi, China

Samuel Henry Cobb, B.A. (Amherst College).....	Columbus
Rollin Francis Conaway, B.A.....	Crooksville
Kate Louise Cowdery, A.B. (Hiram College).....	Geneva
Laura Smith Davis, B.Lit. (Otterbein College).....	Columbus
Joy Franklin Dillinger, B.S. (Otterbein College).....	Hoytville
Arnold William Henry Drewes, B.A. (Ohio Wesleyan University).....	Napoleon
John Huntley Dupre, B.A., LL.B.....	Oxford
Donald Cooper Egger, B.A. (The College of Wooster).....	Beallsville
Mabel Burket Eversole, B.A.....	Columbus
Robert Price Ewing, A.B. (Rio Grande College).....	Lebanon
Virginia Mae Flanagan, B.S. in Edu. (Ohio Northern University).....	McKeesport, Penna.
Winona Pearl Geeting, B.S. in Edu. (Miami University).....	Columbus
William Isaac Gibson, B.Sc. in Jour.....	Columbus
Russell Vause Giffin, B.Sc. in Bus. Adm.....	Columbus
Frances Catherine Gillingham, B.A.....	Columbus
Roe Esther Goodman, A.B. (Otterbein College).....	Akron
Mary Catherine Hardgrove, B.Sc. in Edu.....	Columbus
Donald Clare Horton, B.Sc. in Edu.....	Columbus
Dorothy Frizeli Hyde, B.A. (Wellesley College).....	Chillicothe
Daniel Poindexter Lincoln, Jr., B.A.....	Columbus
Mark E. C. McMillan, B.S. (Wilmington College).....	Waynesville
Marguerite Maddox, B.Sc. in Edu.....	Columbus
Helen Lorene Mansfield, A.B. (Ohio University).....	Athens
Agnes May Marshall, B.A.....	Columbus
Ramona Oneita Messerschmidt, B.A. (University of Wisconsin).....	Toledo
Catherine Adele Miles, B.A., B. Sc. in Edu.....	Columbus
Ruth Ella Moore, B.A.....	Columbus
George Rex Mursell, B. of Soc. Sci. (Boston University).....	Dublin
Blythe Valentine Pearce, A.B. (Indiana State Normal School).....	Kent
Dorothy Kathryn Postle, B.Sc. in Edu., B.A.....	Columbus
Donald Clinton Power, B.Sc. in Bus. Adm., LL.B.....	Columbus
Erwin Hugh Price, LL.B.....	Toledo
Luciano Raymundo, B.Sc. in Edu.....	Laoag, P. I.
Helen Tomlinson Reed, B.A. (University of Wisconsin).....	Oxford
Raymond Clarence Richards, Ph.B. (The College of Wooster).....	Columbus
Anna Jane Robb, B.A. (Monmouth College).....	Xenia
Clara Schnurer, A.B. (University of Pittsburgh).....	Pittsburgh, Penna.
Raymond Stanley Short, B.A. (Muskingum College).....	Xenia
Carolyn Grace Shover, B.A., B.Sc. in Edu.....	Columbus
Cecil Melville Sims, B.A.....	Piqua
Jay Peterson Slesman, A.B. (Ohio Northern University).....	Ada
Theodora Stone, B.A. (Wellesley College).....	Columbus
Daniel Eugene Strain, A.B. (De Pauw University).....	Greencastle, Ind.
William Cecil Taylor, B.A. (Ohio Wesleyan University).....	Akron
William John Tinkle, A.B. (Manchester College).....	Muncie, Ind.
Fred William Tracy, A.B. (Ohio Northern University).....	Danville
Norma Wynne Vernon, A.B. (Ohio University).....	Wellston
Edith Mitchell West, B.A.....	Reynoldsburg
Thomas Rolin Wiley, B.A.....	Columbus
Elizabeth Gertrude Wilson, A.B. (Randolph-Macon College).....	Bethesda
George Frederick Woodson, Jr., B.S. (Wilberforce University).....	Wilberforce

(Sixty-one candidates)

MASTER OF SCIENCE

Eugene Jesse Ash, B.S. (Heidelberg University).....	Canton
Marion Virgil Bailey, B.Sc. in Agr.....	Columbus
Crayton Knox Black, B.A.....	Columbus
Charles Frederick Class, B.Sc. in Agr.....	Lebanon
Albert Godfrey Conrad, B.E.E.....	Norwalk
Huber Emerson Denlinger, B.Sc. in Agr.....	Trotwood
John Frederick Dowler, B.Sc. in Agr.....	Columbus
Keith Berchard Eller, B.E. Physics, B.E.E.....	Bradford
Edwin Elbert Heizer, B.Sc. in Agr.....	Toledo

James Frank Kendrick, B.Sc. in Agr.....	Galena
Arthur Chester Kennedy, B.Sc. in Agr.....	Worthington
Don Shannon Kochheiser, B.Sc. in Agr.....	Bellville
John Barnhart McClelland, B.Sc. in Agr.....	Columbus
Warner Jay Merrill, B.S. (Carnegie Institute of Technology).....	Andover
John Allen Miller, A.B. (Ashland College).....	Ashland
Warren Canfield Miller, A.B. (Hiram College).....	Chardon
Robert Allan Moore, B. A.....	Columbus
George Thomas Rankin, B.A. (Muskingum College).....	Cambridge
Albert Leander Rawlins, B.A.....	Fredericktown
Herbert Le Grande Rawlins, B.E.E.....	Fredericktown
Alexander Walker Short, B.S. in Agr. (West Virginia University).....	Morgantown, W. Va.
Merrill Gordon Van Voorhis, A.B. (Hiram College).....	Ravenna
(Twenty-two candidates)	

CANDIDATES FOR TWO DEGREES

Dorothy Jane Bardo.....	Toledo
Bachelor of Arts	
Bachelor of Science in Education	
Margaret Elizabeth Breckenridge.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Harold Loftus Cannell.....	Cleveland
Bachelor of Industrial Engineering	
Bachelor of Mechanical Engineering	
Samuel Moss Carter.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Florence Matilda Davidson.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
William Lemuel Denny.....	Adams Mills
Bachelor of Science	
Doctor of Medicine	
Alexander Doran.....	Pataskala
Bachelor of Science	
Doctor of Medicine	
Lois Merne Etter.....	Covington
Bachelor of Arts	
Bachelor of Science in Education	
Dorothy Gene Finkelstein.....	Columbus
Bachelor of Arts (with honors)	
Bachelor of Science in Journalism	
Frances Helen French.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Robert Houston French.....	Columbus
Bachelor of Arts (with honors)	
Juris Doctor	
Louis Gelbman.....	Youngstown
Bachelor of Arts	
Bachelor of Laws	
Dorothy Dean Hosler.....	Sherwood
Bachelor of Arts	
Bachelor of Science in Education	
Paul Louis Lehmann.....	Columbus
Bachelor of Arts (with honors)	
Bachelor of Science in Education	
Goldie Darline Lesser.....	Columbus
Bachelor of Arts (with honors)	
Bachelor of Science in Education	

Ellsworth McElwee.....	New Albany
Bachelor of Science in Agriculture	
Doctor of Veterinary Medicine	
Frank William Nicholas.....	West Carrollton
Bachelor of Arts	
Bachelor of Laws	
Amy Frances Owens.....	Chicago, Ill.
Bachelor of Arts	
Bachelor of Science in Education	
Helen Gertrude Pinsenschaum.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Grace Mary Schuenemann.....	Cleveland
Bachelor of Arts	
Bachelor of Science in Education	
(Twenty candidates)	

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Ralph Ubert Battles.....	Gates Mills
Richard Leroy Craig.....	Columbus
Ralph William Darling.....	Lancaster
Robert M. Etter.....	Covington
† Merritt Emmanuel Foster.....	Columbus
Norma Augusta Frank.....	Berea
Otis Ellsworth Gahn.....	Beaver
William Gladstone Gammie.....	Lorain
Richard Albert Gisler.....	Napoleon
Wesley Stewart Green.....	Thompson
Maxwell Greenler.....	Holgate
James Herman Harper.....	Pennsville
Harold Clive Haverfield.....	Cadiz
James Marion Heizer.....	South Vienna
Earl Franklin Hetrick.....	Fremont
Ernest Jay Hopkins.....	Wooster
Harold J. Hursh.....	Alvordton
Harold William Kennedy.....	Martel
James Julius Kreglow.....	De Graff
George Leslie Krohn.....	Grelton
Norman William Kuebler.....	Lakewood
La Verne Simeon Kurtz.....	Bucyrus
Daniel Joseph Loney.....	Springfield
* Ellsworth McElwee.....	New Albany
James Harold Macklin.....	Newark
Albert Charles Martin.....	Troy
Howard Charles Meacham.....	Atwater
Wilbur Alton Miller.....	Columbus
George Newton Motts.....	Lakewood
William Benjamin Murray.....	Rochester
Luther Otto Mylander.....	Oak Harbor
Ralph Blosser Neiswander.....	Williamstown
James Glenn Owens.....	Bluffton
Pearson Pugh.....	Jacobsburg
Donald Bartlett Robinson.....	Wauseon
William Forrest Smith.....	Vinton

† Died, May 22, 1927

* Two Degrees

Wilkin Harold Teegarden.....	Woodington
James George Vandergrift.....	Akron
Walter Leland Wagner.....	Waterford
Aubrey Auris Wood.....	Cove
Wilbur B. Wood.....	Ludlow Falls
William Burton S. Woodward.....	London, Ky.
Ralph William Zimmerman.....	Leetonia

(Forty-three candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Helen Marcile Barber.....	Payne
Beatrice Nellie Barden.....	Shreve
Kathleen Barrett.....	Kenton
Mary Isabelle Barrett.....	Cincinnati
Anna Virginia Bear.....	Osborn
Dorothy Esther Beckman.....	Minerva
Alice Louise Bower.....	Columbus
Evelyn Brockett.....	Atwater
Bertha Brown.....	Jena, La.
Clara Louise Davids.....	Prospect
Marian Sara Evans.....	Columbus
Jeanette Geren.....	Erie, Penna.
Nellie Mae Hixon.....	Jackson
Nadine Marriott Hoffman.....	Columbus
Helen Gertrude Huseman.....	Cincinnati
Mary Ellen Hutton.....	Columbus
Anna Elizabeth Irvine.....	Greenfield
Edith Frances Jones.....	Brecksville
Ida Louise Kiewit.....	Harrison
Virginia Jean Kouns.....	Columbus
Mary Belle Kraner.....	Pickerington
Margaret Dorsie Kropp.....	Columbus
Inez Pearl Levensgood.....	Columbus
Rose Maurine Loiselle.....	Columbus
Mary Ann Frances Mahlmeister.....	Dayton
Florence Eleanor Meck.....	Cleveland
Evelyn Faye Myers.....	Columbus
Pauline Elizabeth Neer.....	Antwerp
Eleanor Alma Outcalt.....	Columbus
Bertha Elizabeth Patten.....	Barnesville
Gwendolen Blanche Rector.....	Williamsport
Eloise Adeline Romell.....	Berlin Heights
Alma R. Roudebush.....	Carrollton
Marie Vern Rudy.....	Covington
Helen Sara Russell.....	Worthington
Jane Kathryn Shanley.....	Columbus
Evelyn Winifred Sherer.....	Bucyrus
Kathryn Pauline Sieg.....	Richwood
Marian Harriet Simons.....	Columbus
Miriam Sabina Slater.....	Murray City
Ruth Elizabeth Swaney.....	Youngstown
Edrie Oriole Thomas.....	Ft. Wayne, Ind.
Mary Lee Thomas.....	Covington
Ruth Cornelia Thomas.....	Warner
Lucille Tibbals.....	Columbus
Margaret Elizabeth Vandervort.....	Wilmington
Mary Kathryn Waters.....	Georgetown
Lucile Roberta Webster.....	Columbus
Alpha Whims Wilhelm.....	Columbus
Nona Marie Wilson.....	Sidney
Ruth Clark Wilson.....	Columbus
Lois Elizabeth Wolff.....	Mansfield

Mary Elizabeth Wynkoop.....	Canal Winchester
Mary Amelia Zurcher.....	Wilmot

(Fifty-four candidates)

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

Talmadge Miesse Baumgardner.....	Lancaster
Stanley Hart Brewster.....	Yellow Springs
John Louis Paolano.....	Barberton
Jean Wyer.....	Columbus
Edwin Henry Ziegfeld.....	Columbus

(Five candidates)

COLLEGE OF LIBERAL ARTS

Acting Dean: WILBUR HENRY SIEBERT

BACHELOR OF ARTS

Permelia Leah Abernathy.....	Columbus
Beatrice Oleta Aduddell.....	Columbus
Marion Leroy Ainsworth.....	Columbus
Edward Blair Amos.....	Columbus
* Dorothy Jane Bardo.....	Toledo
Donald Issiah Barley.....	Dayton
Frances Dean Barnes.....	Georgetown
Richard Leland Barrett (with honors).....	Avon
Herbert Becker.....	Cleveland
Shirley Geraldine Bein.....	Mansfield
Elizabeth Baltimore Bell.....	Columbus
Roger Marion Bellows.....	Columbus
Pauline Delight Boyd.....	Columbus
* Margaret Elizabeth Breckenridge.....	Columbus
Joseph John Brumbaugh.....	Canton
Rachel Elizabeth Bryant.....	Bowling Green
Meryl Dorrence Butt.....	Johnstown
Alfred Cahen, Jr.....	Columbus
* Samuel Moss Carter.....	Columbus
India Mae Clark.....	Granville
Lavonne Miriam Clark.....	Alger
Dorothy Noel Clevenger.....	Dayton
Marie La Tourrette Cook.....	Columbus
Thompson Sawyer Crockett, Jr.....	Columbus
Frank Cutshaw Croxton (with distinction in Chemistry).....	Columbus
* Florence Matilda Davidson.....	Columbus
Jacob Erastus Davis (with honors).....	Beaver
Margaret Leonard Derby.....	Columbus
Edward Dickerson, A.B. (West Virginia Collegiate Institute).....	Columbus
Franklin Foster Dye.....	Reinerville
Doris Opal Edmiston.....	Vinton
Dorothy Orwig Edwards.....	Columbus
Jeanette Elder.....	Columbus
* Lois Merne Etter.....	Covington
Yao Wen Fang.....	Peking, China
Wilbur Grimwood Fender.....	Chicago, Ill.
* Dorothy Gene Finkelstein (with honors).....	Columbus
Margaretta Gray Fleming.....	Columbus
Edith Eileen Folden.....	Columbus
Helen Amalie Fornason, B.Sc. in Edu.....	Cleveland
Virginia Katherine Fox.....	Dayton
* Frances Helen French.....	Columbus
* Robert Houston French (with honors).....	Columbus

* Two Degrees

William Harold Fry (with honors).....	Cincinnati
Louise Nagle Gamper.....	Columbus
Richard Lee Garnett.....	Columbus
Mildred Ann Gauger.....	New Philadelphia
* Louis Gelbman.....	Youngstown
Edward Hall Giesy.....	Columbus
Elizabeth Gilbert.....	Dayton
Samuel B. Goldman.....	Cleveland
Frances Elaine Gooding.....	Columbus
Richard Watkins Gordon (with honors).....	Columbus
Edward Otto Graff.....	Avon Lake
John Henry Gray, Jr.....	Columbus
Charles Buckner Green (with honors).....	Columbus
Harold Venn Griffin.....	Lockwood
Charles Ezra Gross.....	Norwalk
Ethel Marguerite Groth (with honors).....	Dayton
Martha Louise Hale.....	Columbus
Catherine Charlotte Hamilton.....	Newark
Marjorie McCormick Hammond.....	Columbus
Dorothy Lee Hayes.....	Columbus
Louise Hazen.....	Columbus
Charles Emerson Henry.....	Columbus
Francis Joseph Heringhaus.....	Ottawa
Francesca Hockett.....	Columbus
Helen Lucile Hord.....	Central City, Neb.
* Dorothy Dean Hosler.....	Sherwood
William Kenneth Howell.....	Columbus
Howard Eugene Hoyt.....	Columbus
Thelma Lucile Hughes.....	Columbus
Helen Louise Hulbert.....	Columbus
Lawrence Neff Irvin.....	Columbus
Isaac Harry Isaacs.....	Youngstown
James Raymond Jarvis.....	Columbus
Frances Elizabeth Jones (with distinction in Philosophy).....	Dayton
Helen Kepple.....	Akron
Clarence Kilmer.....	Cleveland
Dorothy Ruth Kimmel.....	Canton
Jean Kirkpatrick.....	Columbus
Marcella Ruth Kuhlow.....	Cleveland
Americus Gabe Lancione.....	Bellaire
Edith Lucille Landsittel.....	Columbus
Sarah Margaret Langer.....	Columbus
Emery Bengé Laughlin.....	Belle Center
* Paul Louis Lehmann (with honors).....	Columbus
Timothy Lehmann, Jr.....	Columbus
*Goldie Darline Lesser (with honors).....	Columbus
Carl Anthony Lincke.....	Alliance
Tsun Hsien Liu (with honors).....	Hua-Hsien, China
Ruth Lloyd.....	Portsmouth
Elaine Henriette Loeb.....	Huntington, W. Va.
Lloyd Curtis Loop.....	Salem
Frederick Hillis Lumley (with honors).....	Columbus
Joseph Hamilton McNinch.....	Indianapolis, Ind.
Mildred Elizabeth Marshall.....	Wooster
Arnold Miles.....	Columbus
Betty May Miller.....	Columbus
John Patrick Moloney.....	Delaware
Virginia Zane Moore.....	Columbus
Charles Bradfield Morrey, Jr. (with honors and high distinction in Mathematics).....	Columbus
Marjorie Louise Netherton.....	Columbus
* Frank William Nicholas.....	West Carrollton
Nelson North.....	Columbus

Lois Henrietta Ogden.....	Ashland, Ky.
Emory Willard Oman.....	Columbus
* Amy Frances Owens.....	Chicago, Ill.
Elizabeth Gertrude Paddock.....	Columbus
Allan Guthrie Paterson.....	Buffalo, N. Y.
Levisa Elizabeth Patterson.....	Piketon
Mabel Evelyn Paul.....	Columbus
Mary Elizabeth Pence.....	Columbus
Gretchen Louise Peppard.....	Mansfield
Edward Raiser Pfeleiderer.....	Bucyrus
Alberta Leona Pierson.....	Columbus
* Helen Gertrude Pinsenschaum.....	Columbus
Francis Dale Pontius.....	Columbus
Beatrice Lucille Postle.....	Columbus
Albert Elsworth Pugh (with honors and high distinction in Chemistry).....	St. Clairsville
Robert Earl Pumphrey.....	Clayton
William Clarence Pyant.....	Columbus
Joseph Nathan Rappaport.....	Ottawa
Regina Anna Reitz.....	Portsmouth
Mary Louise Remley.....	Georgetown
Mary Pauline Rice.....	Kinsman
Winifred Dorothy Robinson.....	Columbus
Arthur Rubenstein.....	Cleveland
James Allison Rupert.....	Meadville, Penna.
Bernice Clementine Sargeant.....	Sidney
* Grace Mary Schuenemann.....	Cleveland
Lulu Laurene Shaw.....	Columbus
Theodore Sheaffer.....	Cleveland
Nathan Louis Sieman.....	Youngstown
Louis Ralph Silverman.....	Cleveland
Ralph Hartle Sipple.....	Greenville
Elias Wetherholt Sisson.....	Porter
Mary Lillian Skeele.....	Columbus
Ida Preston Sloan.....	Columbus
Arba Alice Smith.....	Columbus
Robert Goodrich Smith.....	Columbus
Miriam Kenyon Stafford (with honors).....	Worthington
Lawrence Delaney Stanley.....	Columbus
Samuel Harold Stansberry.....	Georgetown
Ernest Marvin Tapp, Jr.....	West Mansfield
Stephen Tarnoczi, Jr., B.E.E.....	Barberton
Harold Johnston Taylor (with honors).....	Lorain
Chi Hsiang Ting.....	Shantung, China
Bernice Grace Tracy.....	Millbury
Katherine Carter Troll.....	St. Clairsville
Donald Curtis Turnbull.....	Pomeroy
Anna Bell Tuttle.....	Columbus
Elizabeth Jeannette Tuttle.....	Columbus
Denver Van Devender.....	Columbus
Clarice Norton Wade.....	Springfield
Margaret Emma Waid.....	Columbus
Mary Brown Walker.....	Greenfield
Robert Franklin Wallace.....	Cleveland
Ernestine Gertrude Wampler.....	Dayton
Roy Bertram Weed.....	Columbus
Wendell Axline Weller.....	Pataskala
Dorothy Elizabeth Wells.....	Columbus
Franklin Priest Wherry.....	East Liverpool
Helen Catherine Whitehill.....	Columbus
Martha Ann Wilder.....	Circleville
Margaret Feuilleteau Wilson.....	Neoga, Ill.

Mary Catherine Wilson.....	Columbus
Amorette Elizabeth Wolcott.....	Columbus
(One hundred and sixty-eight candidates)	

BACHELOR OF SCIENCE

Everett Hubert Atkinson, Jr.....	Ironton
Raymond Leland Cummins.....	Hamilton
*William Lemuel Denny.....	Adams Mills
*Alexander Doran.....	Pataskala
Samuel Emory Flook.....	North Hampton
John McLean Karch.....	Celina
Sam Klatman.....	Youngstown
John Repasky.....	Kenmore
Dale Edwin Roth.....	Woodsfield
Robert Lee Solt.....	Arlington
Calvin Benjamin Spencer.....	Columbus
Harwood Arthur Taylor.....	Columbus
Frances Rabb Wardwell.....	Columbus
Edward Andrew Yurick.....	Columbus
(Fourteen candidates)	

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: CLYDE ORVAL RUGGLES

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

William Montgomery Adams.....	Kimbolton
Russell Leffel Allen.....	Sabina
Peter James Andreou.....	Columbus
Alan Anderson Ballantyne.....	Perrysburg
Herbert Beck.....	Columbus
Howard Carl Beck.....	Columbus
John Rodolph Bednerik.....	Cleveland
Angeline Amelia Bellisio.....	Anderson, Ind.
George William Bernhard.....	Loudonville
John Daniel Bohannon.....	Columbus
Adolph Drukker Broh.....	Huntington, W. Va.
Howard George Brunsman.....	Dayton
Susannah Lillian Bryant.....	Columbus
Paul Edward Buehler.....	Beaver
Louise Jane Burnham.....	Piqua
John Deveny Carter.....	Columbus
Meyer Bradley Casler.....	Toledo
Roger Chase Casler.....	Delta
Myers Arden Clark.....	Gettysburg
Clay Cockerill.....	Columbus
William Warren Cunningham.....	Columbus
Elliott Routh Davies.....	Columbus
Albert Culter Dixon.....	Columbus
Vernon Jay Dobson.....	Toledo
William Paul Downey.....	Columbus
Anson Evelyn Elliott.....	Monroe, La.
Mary Adeline Enright.....	Akron
James Maurice Erwin.....	Mingo Junction
Thomas Francis Fogerty.....	Columbus
Jerome Michael Fox.....	Columbus
Henry Atkinson Francis.....	Cleveland
Arthur Paul Gatewood.....	Crown City
Edwin Jacob Gehres.....	Circleville
Floyd Harold Gilliland.....	Upper Sandusky

Robert Edson Gordon.....	Berlin Heights
William Liles Gordon.....	Columbus
Edward Francis Gutmann.....	St. Johns
Carl George Hall.....	Youngstown
Thomas Francis Hambleton.....	Columbus
Hubert Keith Hankins.....	Columbus
William Donald Hathaway.....	Columbus
Fred Heenan.....	West Mansfield
George Elmer Hile.....	Akron
Robert James Hogan.....	Cleveland
Gerald Houston Hogue.....	Grove City, Penna.
K. Eugene Hopkins.....	Washington C. H.
Herman Hornstein.....	Hamilton
William Hensey Howland.....	Columbus
Laurence Morrow Hyde.....	Rushville
Robert Fulton Irvine.....	Zanesville
Charles Edward Johnston.....	Columbus
Eckhardt Richard Keller.....	Cincinnati
Robert William Keynes.....	Logan
Byron Arnold Kortier.....	Bradner
Everett Adam Langel.....	Pataskala
Eugene Henry Lear.....	Coshocton
Robert Jess Lee.....	Mt. Blanchard
Stewart Weatherwax Leeders.....	Oak Harbor
Benjamin Franklin Lemert.....	Dresden
Robert Bonsall Lewis.....	Wyoming
Norman Charles Linke.....	Columbus
John Robert Long.....	Columbus
John Howard MacKay.....	Wyoming
Wilbur Foster MacKay.....	Wyoming
Melvin Homer Maurer, B.S. (Ohio Northern University).....	Alliance
Forest Oakley Mavis.....	Mt. Vernon
Russell Aaron Mericle.....	Lima
Howard Barrett Miles.....	Columbus
Florence Lyndall Miller.....	Bryan
Raymond Paul Mog.....	East Cleveland
Kenneth Edwin Moore.....	Columbus
Francis Edward Mott.....	Shelby
Lloyd Byron Nixon.....	Centerville, Ind.
Bernard Maximilian Podwojski.....	Cleveland
Katherine Porter.....	Columbus
Charles Canby Price.....	Norwalk
Clinton Andrew Roach.....	Columbus
William Lang Roemer.....	Toledo
Joseph Rosenbloom.....	Dayton
Samuel Solomon Rosenthal.....	Columbus
Richard Wooley Rossman.....	Franklin
Alice Lucile Russell.....	Columbus
Orville Harry Ryerson.....	Columbus
Sara Elizabeth Safford.....	Columbus
Fred Ernest Schneider.....	Akron
Theodore Adams Shindledecker.....	Youngstown
Clarence William Snyder.....	Marion
James Boyd Snyder.....	Zanesville
Thomas Beckett Sprague.....	Columbus
George Harte Strietmann.....	Cincinnati
Virgil C. Sullivan.....	Columbus
Richard Mason Tubbs.....	Bryan
Lowell Emerson Ullery.....	Bradford
Lawrence Edward Vosburgh.....	Lakewood
David Robert Webb.....	Lakewood
Erma Shrimplin White.....	Killbuck
Bertha Wiener.....	Akron
Harvest Merle Wilford.....	Lorain

John Gordon Williams.....	Washington C. H.
Norman Kurz Wolff.....	Martins Ferry
Bessie Arthur Workman.....	Columbus
Ben Allen Yenkin.....	Columbus

(One hundred and two candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Wayne Dwight Adams.....	Orwell
Kathleen Armstrong.....	Columbus
Helen Rhodes Arrowsmith.....	Hicksville
Genevieve Arceville Brown.....	St. Paris
Harold Roosevelt Cross.....	Columbus
* Dorothy Gene Finkelstein.....	Columbus
Gordon Thomas Gardner.....	Eaton
Evelyn Marie Graham.....	Columbus
Mary Irene Hess.....	Alliance
Lynn Howe Holcomb.....	Youngstown
Albert Henry Hunske.....	Cincinnati
Mark Albert Loofbourrow.....	Columbus
Roma Margraf.....	Columbus
LeRoy Morris.....	Akron
Beryle Nelson.....	Vicksburg, Miss.
Edna Ruth Parker.....	Columbus
Russell H. Reeves.....	Cleveland
Ralph Longwell Sanders.....	Norwalk
Norman Siegel.....	Cleveland
Henry Hilman Smith.....	Norwood, Cincinnati
Catherine Alice Stone.....	Caraopolis, Penn.
Mildred Louise Worley.....	Columbus

(Twenty-two candidates)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Madeline Berry.....	Indianapolis, Ind.
Ada Jean Blackburn.....	Utica
William Enoch Brown.....	Delaware
Helen Virginia Fitzwater.....	Columbus
Katherine Susan Hamburger.....	Dayton
Isabel Bernyce Kline.....	Bellevue
Esther Anne Levine.....	New Castle, Penna.
Julia Ann MacLane.....	Toledo
Norma Lucille Welf.....	Cleveland

(Nine candidates)

COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

DOCTOR OF DENTAL SURGERY

Franklin Guy Aab.....	Lima
Robert Miles Appleman.....	Columbus
Harold George Asman.....	Marysville
Francis Lamar Bair, A.B. (Wittenberg College).....	Springfield
Carl Opdycke Boucher.....	Bryan
James Henry Brettell, Jr.....	Mingo Junction
Samuel Selig Cohen.....	Youngstown
Clarence Eugene Denbow.....	Columbus
Keith Ethelbert DeVoe.....	Lima
Joseph Jacob Foreman.....	Columbus
Lawrence Alfred Graham.....	Alliance

Walter William Grothaus, B.A.....	New Bremen
Dale Harvey	Columbus
Paul Tennyson Haynes.....	Sandusky
Carl Philip Hirsch.....	Chillicothe
Harold Cecil Horden.....	Middleport
Lester Luke Hunter.....	Yellow Springs
Wilbert Malon Iden.....	Cleveland
Alex William Klein.....	Lorain
Nelson Owen Klinepeter.....	Columbus
Paul Jacob Klinke.....	Youngstown
Harold Wilson McConnell.....	Sebring
Vincent Edgar McCormish.....	Akron
Archie Glenn McGregor.....	Cambridge
Arthur Robert Martin.....	Defiance
Lester Moore.....	Columbus
Earl Osborn Mumper.....	Loudonville
Clarence Shaffer Musgrave.....	Toledo
Donald Harvey Nichols.....	Cleveland
Charles Standish O'Grady.....	Lancaster
George Taikin Owyang, D.V.M.....	Walnut Grove, Calif.
Charles Everly Paul.....	Columbus
William Melvin Porterfield, B.S. (Mount Union College).....	Bellaire
Edward Fulton Rogers.....	Mansfield
Howard Arthur Rose.....	Oil City, Penna.
Donald Albert Shusterman.....	Columbus
Paul Owen Slaven.....	Ravenna
Byron B. Stewart.....	Columbus
John Troyan.....	Pleasant City
Arthur James Wagner.....	Lorain
John Moore Wisterman.....	Galion

(Forty-one candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Mildred Adkins.....	Toledo
Lucy Virginia Ailer, R.N.....	Bellevue
Jane Blasius Ambrose.....	Logan
Ruth Amrine.....	London
Margaret Alice Anson.....	Columbus
Imogene Henrietta Atcheson, B.A.....	Columbus
Josephine Elizabeth Atkinson.....	Columbus
Cora Elizabeth Bales.....	Zanesfield
* Dorothy Jane Bardo.....	Toledo
Gladys Louise Barnes.....	Columbus
Geneva Pearl Basil.....	Scott
Isador Cyrus Benis.....	Canton
Elizabeth Mary Benjamin.....	Woodsfield
Evelyn Maurine Berry.....	Orrville
Walter Bernard Booher.....	Dayton
Minna Pauline Bornheim.....	Columbus
Dorothy Lucinda Boyer.....	Pickerington
*Margaret Elizabeth Breckenridge.....	Columbus
Lenore Freed Bunn.....	Springfield
Arthur Morse Burington.....	Columbus
Erma Genevieve Burkley.....	Columbus
Mary Martha Burris.....	Cambridge
Anne Louise Carman.....	Painesville

* Two Degrees

* Samuel Moss Carter.....	Columbus
Doris Lucille Chadwick.....	Columbus
Amelia Chaney.....	London
Elizabeth Irene Chapman.....	Nelsonville
Nellie Louise Clark.....	Columbus
Alice Eliza Clemson.....	Thornville
* Florence Matilda Davidson.....	Columbus
Helen Margaret Davis.....	Middleport
Ida Lavada DeVore.....	Columbus
Dorothy Wilda Dillon.....	Columbus
Ruby Ruth Drown.....	Sullivan
Helen Virginia Emerson.....	Columbus
Estelle Irene Engelhart.....	Galion
Alexander William Erlen.....	Columbus
Marian Ernsberger.....	Toledo
Mary Annette Esmond.....	Columbus
* Lois Merne Etter.....	Covington
Mary Garrett Evans.....	Columbus
Daniel Chester Fast.....	Bloomdale
Doris Wilson Fenwick.....	Lakeside
Dorothy Elizabeth Filing.....	Columbus
Dorothy Lucille Fischer.....	Columbus
Mabel Merkle Fisher.....	Columbus
Virginia Esther Fouts.....	Columbus
* Frances Helen French.....	Columbus
Edith Goldie Fritz.....	Zanesville
Evlyn Cecile Furr.....	Columbus
Edna Mae Fynes.....	Washingtonville
Margaret Jane Garner.....	Columbus
Marcia Wolf Gegelein.....	Cleveland
Frances Elizabeth Gerhardt.....	Mt. Sterling
Bernice McKean Giebner.....	Columbus
Virginia Elizabeth Giesler.....	Portsmouth
Jean Isabel Gilbert.....	Toledo
Virginia Ellen Gilliam.....	Lancaster
Margaret Isabelle Glander.....	West Alexandria
Cleo Angeline Glenn.....	Columbus
Preston Palmer Golding.....	New London
Evelyn Ruth Golladay.....	Columbus
Ruth Amy Grier.....	Barnesville
Henrietta Marian Haas.....	Kenton
Henrietta Kathryn Harkins.....	Akron
Henry Holmes Harper.....	Plain City
Geraldine Caroline Harris.....	Columbus
Irene Mae Harris.....	Columbus
Beatrice Conard Hartman.....	Sabina
Bernice Irene Hathaway.....	Bloomville
Thalia Catherine Hawkins.....	Canfield
Esther Elizabeth Headley.....	Columbus
Myrtle Irene Hedges.....	Laurelville
Jessie Margarethe Heiner.....	Columbus
Olive Edna Henretty.....	Tiffin
Ruby Lucille Herman.....	Dayton
Catherine Herrick.....	Uhrichsville
Lillian Florence Herzog.....	Toledo
Margaret Camille Higgins.....	Columbus
Ruth Minerva Hollinger.....	Akron
Clarbell Elizabeth Hoskins.....	Hannibal
* Dorothy Dean Hosler.....	Sherwood
Howard Hosler.....	Mt. Sterling
Christopher Frank Immarino.....	Cleveland
Margaret Barbara Jacob.....	Columbus

Lois Bartel Johanning.....	Richmond, Ind.
Geneva Ruth Johnson.....	Columbus
Norma Vivian Johnston.....	Columbus
Mary Esther Jones.....	Lorain
Minnie Alice Jones.....	Camp Chase
Helen Beatrice Kappenberg.....	Plymouth
Martin Gregory Karow.....	Cleveland
Esther Kaufman.....	Shelbyville, Ind.
Edna May Keeler.....	Bellevue
Elizabeth Worley Kendell.....	Covington
Ruth Pauline Kimmel.....	New Madison
Emily Alice King.....	Columbus
Daniel Herman Kruger.....	Linden Heights
Allen Howe Kuder.....	Medina
Manuel Earnest Kuechle.....	Marysville
Avis Louise Kuenzel.....	New Bremen
Ruth Mary Langstaff.....	Richwood
Anna Hale Laughlin.....	Aurora
Hilda Lenore Lehman.....	Columbus
* Paul Louis Lehmann.....	Columbus
* Goldie Darline Lesser.....	Columbus
Helen Ann Lewis.....	Columbus
Mildred Lewis.....	Jackson
Mildred Rose Lewis.....	Cleveland
Marie Opal Lincoln.....	Lima
Frederick Benjamin Louys.....	Stryker
Oral Emery Lowery.....	Columbus
Sara Naomi McCoy.....	Worthington
Helen Hibbard McCray.....	Columbus
Lucile Emogene McCrum.....	Columbus
Lelia McDermott.....	Columbus
Dorothy Louise McKenney.....	Columbus
Lillian McQuinniff.....	Columbus
Georgia Grube Maize.....	Columbus
Elizabeth Louise Mann.....	Columbus
Gertrude Ellen Mann.....	Fredericktown
Mary Louise Markel.....	Columbus
Raphael Cowles Marshall.....	Columbus
Dorothy Lucille Mayhugh.....	Columbus
Helen Swoish Merrell.....	Columbus
Artha Virginia Metcalf.....	Columbus
Virginia Herbert Miller.....	Uhrichsville
Ruth Louise Montgomery.....	Columbus
Mary Martha Morgan.....	Columbus
Rosalind Marguerite Morrison.....	Columbus
Delphia May Mosier.....	Columbus
Robert Mounts.....	Grove City
Emilie Belle Myers.....	Cleveland
Jessie Margaret Myers.....	Columbus
Laura Estelle Nash, B.A.....	Berlin Heights
Rosalia Henrietta Newman.....	Youngstown
Alberta Ward Nichols.....	Columbus
Ruth Adele Nincehler.....	Columbus
Mary Carolyn Norton.....	Columbus
Millicent Anna Ohlemacher.....	Columbus
Jeanette Cecelia Olnhausen.....	Bowling Green
* Amy Frances Owens.....	Chicago, Ill.
Ray Carlton Page.....	Parkersburg, W. Va.
Ruth Olive Pennell.....	Columbus
Michael Pepe.....	Columbus
Pauline Phelps.....	Youngstown
* Helen Gertrude Pinsenschaum.....	Columbus

Alice Lucille Plankell.....	Columbus
Agnes Marie Price.....	Columbus
Lynetta Mary Pugh.....	Columbus
Eulalia Ruth Ramey.....	Columbus
Mildred Clare Reelhorn.....	Kirkersville
Mary Evelyn Reese.....	Alexandria
Florence Winifred Rice.....	Canton
Florence Elizabeth Richter.....	Columbus
Frances Amelia Rings.....	Columbus
Celia Mae Roberts.....	Cleveland
Lucy Hall Roberts.....	Columbus
Frances Elizabeth Roehm.....	Columbus
Glenn Gilman Rohleder.....	Hayesville
Evelyn Theresa Rolfe.....	Columbus
Rachel Emma Rowe.....	Columbus
Mary Louise Rowles.....	Columbus
Beatrice Hazel Rupnow.....	Columbus
Eva Schaket.....	Columbus
Bertha Josephine Schilffarth.....	Columbus
Mildred Delane Schindler.....	Columbus
Gertrude Schlezinger.....	Columbus
Marjorie Lucille Schramling.....	Kingsville
* Grace Mary Schuenemann.....	Cleveland
Hannah Mabel Scott.....	Newark
Margaret Louise Scott.....	Cadiz
Ruth Ellen Semans.....	Columbus
Harry Richard Severns.....	Findlay
Margaret Dooris Sharp.....	Columbus
Mabel Margaret Shilling.....	Dexter City
Alice Mary Shultz.....	Dayton
Catherine Jane Simpson.....	Columbus
William Loren Slager.....	Chillicothe
Mary Elizabeth Sloan.....	Osborn
Margaret Amanda Snyder.....	Lancaster
Harriet Rachael Stephen.....	Ansonia
Margaret Jane Stevenson.....	North Baltimore
Sara Elizabeth Stewart.....	Mt. Victory
Elsie Brand Stiebeling.....	Latty
Thelma Gertrude Strait.....	Dayton
Leora Belle Stroup.....	Windham
Dorothy La Rose Tarr.....	Columbus
George William Taylor.....	Mansfield
Grace Meier Taylor.....	Columbus
Mary Eva Thomas.....	Columbus
Norma Anne Thomas.....	Columbus
Zelma Sheley Tracey.....	Bloomingsburg
Alice Raymond Tremaine.....	Columbus
Arthur Maxwell Tressel.....	Cadiz
Mary Trimmer.....	Geer, Va.
Miriam Grace Truax.....	Lewistown
Ruth Margaret Vance.....	Columbus
Elizabeth Louise Walker.....	Columbus
Ellen Todd Warner.....	Columbus
Kenneth Davis Weber.....	Galena
Dorcas Miriam Wehr.....	Columbus
Henry Daniel Welty.....	Bluffton
Frederic Negley Werremeyer.....	Cleveland
Ruth Lillian Wheatercraft.....	New Lexington
Helen Dorothy Williams.....	Columbus
Mary Laverne Williamson.....	Columbus
Ruth Dora Willis.....	Columbus
Martha Carola Wittke.....	Columbus

* Two Degrees

ANNUAL REPORT

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Joy Lillian Wood.....	Harrisburg
Esther Woodruff.....	Columbus
Laura Agnes Wyatt.....	New Richmond
Margaret Whitehead Yordy.....	Columbus

(Two hundred and thirteen candidates)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

CHEMICAL ENGINEER

Donald Bane Brooks, B.Ch.E., M.Sc.....	South Bend, Ind.
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(One candidate)

BACHELOR OF ARCHITECTURE

Arthur Thomas Brown, B.S. (Tarkio College).....	Tarkio, Me.
Chester Croce.....	Cleveland
Frank James Dickerson.....	Columbus
Ferdinand Ernst Freytag.....	Ft. Loramie
Seward Davis Legge.....	Newark
George Elliott Merkel.....	Kent
Wilbur David Riddle.....	Ravenna
Wilma Maybelle Roecker.....	Marion

(Eight candidates)

BACHELOR OF ARCHITECTURAL ENGINEERING

Orville Albert Bell.....	Blaine, Me.
Horace Westly Carter.....	Columbus
Joseph Harry Day.....	Columbus
Clarence Russell Dole.....	Lima
William Forrester Dunnick.....	Columbus
John Calvin Evans.....	Pittsburgh, Penna.
Dale Lawrence Harvey.....	Garrett, Ind.
Carl Edward Kuck.....	New Knoxville
Thomas Shipley Lewis.....	Wyoming
Orland William Rader.....	Columbus
Vernon Harry Wheelock.....	Warren

(Eleven candidates)

BACHELOR OF CERAMIC ENGINEERING

Raymond Embree Birch.....	McConnelsville
Arthur Joseph Blume.....	Ironton
Van Emmon Campbell.....	East Liverpool
Frank Burton Carter.....	Worthington
Paul Francis Collins.....	Columbus
Roy Slanker Craft.....	Wapakoneta
Robert Walter Craig.....	Lima
Charles Mitchener Dodd.....	New Philadelphia
Earl Chalmers Guisinger.....	Columbus
Charles Pinckney Layton.....	Marion, S. C.
John Henry Lumley.....	Columbus
Guy Hamilton Merry.....	Augusta, Ga.
Herbert John Rolke.....	Columbus
Walter Henry Schotts.....	Columbus
Paul Franklin Siegrist.....	Uhrichsville
Allen LeRoy Simison.....	Columbus
William Marshall Taylor.....	Columbus

(Seventeen candidates)

THE OHIO STATE UNIVERSITY

BACHELOR OF CHEMICAL ENGINEERING

Sam Aronoff.....	Cleveland
James Leroy Collins.....	Lewistown
Clyde Edward Faneuff.....	Walbridge
Lone Elsworth Grimmer.....	Hamilton
Milton Fletcher Lindsley, Jr.....	Kings Mills
Harry Joseph Miller.....	Springfield
Willard Bransford Mitchener.....	Washington C. H.
Lewis Eli Mong.....	Medina
Charles Robley Owens.....	Columbus
William Strobach.....	Dayton

(Ten candidates)

BACHELOR OF CIVIL ENGINEERING

Willard Dickinson Arnold.....	Zanesville
Paul Davis Benbow.....	Aurora, Ill.
Carleton Ransom Bishop.....	Havana
Howard Emerson Bohmer.....	Cleveland
Edmund Patrick Coady.....	Columbus
Harold Webster Crum.....	Columbus
Donald Dean Frazier.....	Cadiz
Louis John Gayer.....	Cincinnati
Theodore William Glynn.....	Cleveland
Russell Everad Heinzelman.....	Chillicothe
Henry Merlin Hughes.....	Fremont
Emmett Elisha Knorr.....	East Canton
Raymond Dale Kraus.....	Wooster
Marion Wilkins Lang, B.Sc in C.E. (Tri-State College).....	Manchester
Raymond Hall Rice.....	Toledo
Willard Alexander Riethmiller.....	Martins Ferry
Leslie Purkis Sharpe.....	Columbus
Lowber Burrows Strange.....	Columbus
Glenn Milo Wood.....	Lodi

(Nineteen candidates)

BACHELOR OF ELECTRICAL ENGINEERING

Norman Frederick Agnew.....	Poland
Gordon Marion Amatzutz.....	East Cleveland
Lewis Gordon Anderson.....	Columbus
William Jeffries Bickmore.....	Columbus
Marion Eugene Bond.....	Akron
Edward Finch Brooke.....	Pickerington
Byron Burk Brown.....	Eaton
George Edward Brown.....	Cleveland
Stephen Edward Callahan.....	Columbus
Pierre Jay Cole.....	Ansonia
Paul Eugene Crouch.....	Lakewood
Edward Francis Dempsey.....	Columbus
James Welton Dice.....	Washington C. H.
Lee Patrick Doyle.....	Columbus
Theodore Charles Dungan.....	St. Clairsville
Ralph William Englebray.....	Vermillion
Carl Lindley Goodlin.....	Toronto
Wilbur Glenn Hardy.....	Columbus
Enoch Julius Hoelscher.....	St. Marys
Homer Wilson Joehlin.....	Curtice
Theodore Roosevelt Johnson.....	Powell
Waldo Emerson Johnson.....	Perrysburg
Robert Francis Jones.....	Oberlin
Robert Malcolm Kalb.....	Bradford, Penna.
Russell Edwin Kemp.....	Dayton
Claude Raymond Kingsbury.....	Ravenna

Walton Oakley Leedy.....	Bellville
Donald Alton Lewis.....	Malvern
Russell William Mebs.....	Columbus
†Ira Wesley Miller.....	Delphos
Frederick Magley Moccabee.....	Columbus
Alfred Ord Myers.....	New York, N. Y.
Arthur Thomas Owen.....	Woodstock
Herbert Dellmont Owens.....	West Alexandria
Ralph Gardner Owens.....	West Alexandria
Harold Reed Porter.....	Columbus
Lester James Prutton.....	Cleveland
Norman Karl Reinhart.....	Cleveland
Alfred Allen Roetken.....	Covington, Ky.
Paul Thomas Schneider.....	Trinway
Harold William Schweinsberger.....	Columbus
Joseph Loesser Seaman.....	Toledo
Edwin Slyh Waterman.....	Columbus
Fred Bernard Weidman.....	Cleveland
Donald Guthery Wetteraur.....	Marion

(Forty-five candidates)

BACHELOR OF INDUSTRIAL ENGINEERING

* Harold Loftus Cannell.....	Cleveland
William Bernard Gillen.....	Warren

(Two candidates)

BACHELOR OF MECHANICAL ENGINEERING

Paul Ellsworth Bigony.....	Columbus
*Harold Loftus Cannell.....	Cleveland
William Carl Dolch.....	Cleveland
Lee William Garver.....	Hamilton
Joseph Leonard Goodill.....	Erie, Penna.
Jacob Albert Goodman.....	Columbus
Uren Jacob Grant.....	Smithville
Glenn Earl Haney.....	Dalton
Paul Andrew Harlamert.....	Kettlersville
John Theodore Hunzicker.....	Columbus
Oscar William Loudenslager.....	Columbus
Donald Hayes Markel.....	Columbus
William Albert Meiter.....	Salem
Raymond Samuel Osborn.....	Copley
Andrew John Palko.....	Cleveland
Edgar G. Parks.....	West Manchester
Carl Albert Stickel.....	Dayton
Fred Eugene Ullery.....	Covington
Noel Daniel Veth.....	Columbus
Ivan Frank Zarobsky.....	Toledo

(Twenty candidates)

BACHELOR OF METALLURGICAL ENGINEERING

Thomas Fuller McCormick.....	Gallipolis
Edward Case Sawyer.....	Columbus
Harry Craig White.....	Detroit, Mich.

(Three candidates)

BACHELOR OF ENGINEERING PHYSICS

John Francis Byrne.....	Columbus
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(One candidate)

† Died, April 13, 1927.

* Two Degrees

THE OHIO STATE UNIVERSITY

BACHELOR OF ENGINEERING IN MINING

Ralph Edgar Heuberger.....	Coshocton
(One candidate)	

BACHELOR OF SCIENCE IN APPLIED OPTICS

David Roger Fitz.....	Zanesville
Henry Fredrick.....	Cleveland
Harry Kreusler Gestrich.....	Pittsburgh, Penna.
Lester Edward Griswold.....	Fort Collins, Colo.
Eugene Liston Higgins.....	Cleveland
Kenneth Ritter Klinger.....	Greenville
Paul LeBlonde Magnuson.....	Columbus
Murvin Wilton Riethmiller.....	Columbus
(Eight candidates)	

COLLEGE OF LAW

Acting Dean: ALONZO H. TUTTLE

JURIS DOCTOR

David Stuart Craig, Jr., B.A. (Ohio Wesleyan University).....	Washington, C. H.
* Robert Houston French.....	Columbus
Paul Alfred Griffith, B.A.....	Columbus
Leon Andrew Ransom, B.Sc. (Wilberforce University).....	Zanesville
Ralph A. Skilken, B.A.....	Dayton
(Five candidates)	

BACHELOR OF LAWS

John Charles Aikin, B.A. (Muskingum College).....	Bellefontaine
Williard Vernon Archer, B.A.....	Buffalo
Edward Graham Baird, B.Sc. in Bus. Adm.....	Bowling Green
Edward Walter Barrett.....	Chillicothe
Jesse Bernard Blumenstiel.....	Sebring
Enos Byron Bookwalter, A.B. (University of Michigan).....	Columbiana
Alvin Newton Browning.....	Washington C. H.
† Charles Edwin Carlton, B.A.....	Columbus
Raymond Millard Carr, B.Sc. in Agr.....	Bellefontaine
Helen Eileen Carroll, A.B. (Trinity College).....	Columbus
Albert Augustus Clark.....	Columbus
George Clement Collins.....	Springfield
Charles Casper Core.....	New Lexington
Emmitt Littleton Crist, B.A.....	Circleville
Agnes Bryant Dickinson.....	Columbus
Joseph Marshall Downs, B.A.....	Columbus
Robert Thomas Dunn, B.A.....	Columbus
Leohard David Eesley.....	Grove City
Ernest Edward Erb, A.B. (Marietta College).....	Whipple
Mark Simon Evans, B.A.....	Columbus
* Louis Gelbman.....	Youngstown
Charles Raymond Gillen.....	Painesville
William Carl Graham.....	Huntington, W. Va.
Scott Graves, B.S. (Kenyon College).....	Oak Harbor
Charles Harold Greenewald.....	Columbus
Kenneth Haller.....	Coshocton
Blanche Irene Harris.....	Ravenna
Robert Hawes Hoffman, B.A.....	Arcanum
Henry Pettker Huston, B.A.....	Mansfield

* Two Degrees

† Died, April 13, 1927

Lawrence Edwin Judy, B.A.	Bridgeport
Louis Israel Kaufman	Cleveland
Paul Toomire Klapp	St. Paris
Lee Hamilton Kramer, B.A.	Columbus
Geoffrey Honore Levy	Middletown
John Franklin Locke, B.A.	St. Louisville
Morris Lopper, B.A.	Columbus
Michael Fernolend Markel, A.B. (Capital University)	Columbus
Harry McKinley Miller	Gallipolis
Peter Michael Mizenko, B.A.	Cleveland
Leonard Alvin Murphey	Chagrin Falls
* Frank William Nicholas	West Carrollton
Floyd Henry Obert	Columbus
Merritt Edward Schlafman, B.A.	Dayton
Herman William Seikel, B.A.	Dover
Charles Anderson Slade, B.A.	Arcanum
William Raymond Speer, B.Sc. in Bus. Adm.	Columbus
David McClure Spriggs, B.A.	Bellaire
Thomas Burton Stahl	Fremont
Roy Jacob Stone, B. A.	Columbus
Charles Edward Swope	Columbus
Leslie Thal	Toledo
Harry Hall Thomas	Akron
Isadore Topper, B.A. (University of the City of Toledo)	Toledo
Paul Wood Vale, B.A.	Columbus
Alex Stevenson Watt, B.A.	Circleville
Harry Clement Weaver	Columbus
Richard Vernon Wilcox	Columbus
Waldo Emerson Young, A.B. (Earlham College)	Eaton
Charles Alfred Zinn	Zanesville

(Fifty-nine candidates)

COLLEGE OF MEDICINE

Dean: EUGENE F. McCAMPBELL

DOCTOR OF MEDICINE

Jacob Maurice Apple	Cleveland
Albert Lawrence Bershon	Toledo
Earl Head Blair	Chillicothe
Edward Everett Hale Boyer, B.Sc. (Massachusetts Agricultural College); M.Sc., Ph.D.	Columbus
Walter Carl Breth	Chillicothe
Anson Lee Brown, B.A.	Columbus
John Daniel Brumbaugh, A.B. (Johns Hopkins University); B.S. in Ch. E. (Case School of Applied Science)	Moultrie
Morgan Cryder Davies, B.Sc. in App. Optics	Columbus
* William Lemuel Denny	Adams Mills
* Alexander Doran	Pataskala
Howard Marvin Gans, B.A.	Cleveland
Russell Wilson Gardner, B.Sc.	Marengo
Nunzio Savior Giardina	Lorain
Howard DeBosse Giles, B.A.	Columbus
Mary Ann Graber, B.Sc. in H.E.	Beach City
Ian Bruce Hamilton	Louisville
Stephen Audrey Harris	Shadyside
George James Heer	Columbus
Walter Fredrick Heine, B.A. (Ohio Wesleyan University)	Columbus
Roy Dallas Hildebrand, B.A.	Newcomerstown
John Elmer Hoberg, B.Sc.	Brink Haven
William Richard Hochwalt, B.S. (University of Dayton)	Dayton
Calvin Franklin Jackson	Toledo

* Two Degrees

Frank Cottrell Jackson, B.Sc.	Bellaire
Harold Mostyn James, B.A.	Steubenville
Ora Reed Jones	Lore City
David Lubin	Cleveland
Robert Gordon McMurray	Marion
Harley Sherman Manuel	Latty
Clarence Jay Maxwell	Scio
Ben Martin M'Closky	Cleveland
Ormun Durell Miller, B.A.	Columbus
Frank Richard Morrow, B.S. (University of Pittsburgh)	Bakerstown, Penna.
Clarence C. Myers, A.B. (Rio Grande College)	Piketon
Thomas Edmund Newell, B.S. (Otterbein College)	Westerville
Arthur Lloyd Osborn, B.A.	Waldo
George Elliott Peters, B.A.	Ashville
Martin Lester Purdin	West Union
Harold Lowell Reinhard, A.B. (Marietta College)	Portsmouth
Max Harry Rosenblum	Columbus
William Edgar Scaggs	Portsmouth
Hugh Carl Schick, A.B. (Heidelberg University)	North Canton
Lester Seligson, B.A.	Raleigh, N. C.
Edwin Shields Shane, B.A.	Hanover
Theodore Roosevelt Shrop, B.S. (Mount Union College)	Atwater
William Walter Sittler, A.B. (Wittenberg College)	Lancaster
Durward Alto Skinner, A.B. (Ohio University)	Newark
Burton Osmond Sours	Kenmore
Newton Carman Spencer	Toledo
Otto Jay Swisher, Jr.	Columbus
Saul Joseph Tamarkin	Youngstown
William Daniel Turner, A.B. (Marietta College)	Fleming
Frank Mathew Warner, B.S. (Ohio Northern University)	Barberton
Joseph Perry Weiss, B.A.	Dundee
Robert Milton Zollinger, B.Sc.	Millersport

(Fifty-five candidates)

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

BACHELOR OF SCIENCE IN PHARMACY

Frank Ferron Bradley	Painesville
Frank William Brazinski	Elizabeth, N. J.
Kirtley Wayne Ervin	Middletown
Morris Freezman	Steubenville
Russell Robb Frew	New Philadelphia
Carl Casimir Hug	Canton
Raymond Edward Hug	Canton
Martha Ludlum	Morrow
Myer Marx	Columbus
Ralph Jethro Mill	Mt. Vernon
Leslie William Rees	Columbus
Wesley Homer Stokes	Ashtabula
Raymond Paul Trombetti	Steubenville

(Thirteen candidates)

COLLEGE OF VETERINARY MEDICINE

Dean: DAVID STUART WHITE

DOCTOR OF VETERINARY MEDICINE

Cyrus Paul Brose	New Washington
Ernest Milton Dickinson	Boston
Russell Emmett Hammond	Lisbon

College of Pharmacy (degrees).....	12	1	..
(certificates)	7	1	
(total) .....	..	..	21
College of Veterinary Medicine.....	9	0	9
Total	675	414	1089
Candidates for degrees and certificates.....			1069
Candidates receiving two degrees.....			20
			1089

AUGUST CONVOCATION—1926

Graduate School	108
College of Agriculture.....	16
College of Arts, Philosophy, and Science.....	50
College of Commerce and Journalism.....	33
College of Education.....	53
College of Engineering.....	5
College of Medicine.....	7
	272
Degrees—Women	97
Degrees—Men	175
	272
Candidates for degrees.....	268
Candidates receiving two degrees.....	4
	272

DECEMBER CONVOCATION—1926

Graduate School.....	18
College of Agriculture.....	20
College of Arts, Philosophy, and Science.....	21
College of Commerce and Journalism.....	11
College of Education.....	22
College of Engineering.....	19
College of Law.....	9
College of Medicine.....	3
College of Pharmacy (1 degree) (10 certificates).....	11
	134
Degrees and Certificates—Women.....	39
Degrees and Certificates—Men.....	95
	134
Candidates for degrees and certificates.....	132
Candidates receiving two degrees.....	2

MARCH CONVOCATION—1927

Graduate School.....	19
College of Agriculture.....	25
College of Liberal Arts.....	28
College of Commerce and Administration.....	25
College of Education.....	13
College of Engineering.....	10
College of Law.....	6
College of Pharmacy (2 degrees) (13 certificates).....	15
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Degrees and certificates—Women.....	36
Degrees and certificates—Men.....	105

141

GRAND TOTAL FOR THE YEAR

Graduate School	253
College of Agriculture.....	163
College of Liberal Arts.....	281
College of Commerce and Administration.....	202
College of Dentistry.....	41
College of Education.....	301
College of Engineering.....	130
College of Law.....	79
College of Medicine (65 degrees) (15 certificates).....	80
College of Pharmacy (16 degrees) (31 certificates).....	47
College of Veterinary Medicine.....	9

1636

Degrees and Certificates—Women.....	586
Degrees and Certificates—Men.....	1050

1636

Candidates for degrees and certificates.....	1610
Candidates receiving two degrees.....	26

1636

LIST OF R. O. T. C. STUDENTS OF THE OHIO STATE UNIVERSITY COMMISSIONED
IN THE OFFICERS RESERVE CORPS, AT THE CLOSE OF THE
ACADEMIC YEAR

INFANTRY

Ralph Ubert Battles	Byron Arnold Kortier
William Warren Cunningham	Lewis Eli Mong
William Bernard Gillen	William Forrest Smith
Jacob Albert Goodman	James Boyd Snyder
Robert Fulton Irvine	Donald Curtis Turnbull

FIELD ARTILLERY

Stephen Edward Callahan	Allen Guthrie Paterson
Richard Leroy Craig	Lester James Prutton
Thompson Sawyer Crockett, Jr.	Herbert John Rolke
Theodore Charles Dungan	Edward Case Sawyer
Earl Chalmers Guisinger	Allen LeRoy Simison
James Raymond Jarv's	Harry Craig White
Raymond Paul Mog	

SIGNAL CORPS

Paul Eugene Crouch	Russell Edwin Kemp
Edward Francis Dempsey	Walton Oakley Leedy
Lee Patrick Doyle	Herbert Dellmont Owens
Carl Lindley Goodlin	Paul Thomas Schneider
Homer Wilson Joehlin	Donald Guthery Wetterauer
Robert Malcolm Kalb	

MEDICAL CORPS

Walter Carl Breth	Martin Lester Purdin
John Daniel Brumbaugh	Hugh Carl Schick
Alexander Doran	Edwin Shields Shore
Walter Frederick Heine	Theodore Roosevelt Shrop
Harold Mostyn James	Newton Carman Spencer
Ormun Durell Miller	

DENTAL CORPS

Franklin Guy Aab
 Robert Miles Appleman
 Harold George Asman
 James Henry Brettel, Jr.
 Samuel Selig Cohen
 Clarence Eugene Denbow
 Keith Ethelbert DeVoe
 Lawrence Alfred Graham
 Paul Tennyson Haynes
 Carl Philip Hirsch
 Harold Cecil Horden
 Nelson Owen Klinepeter

Harold Wilson McConnell
 Archie Glenn McGregor
 Earl Osborn Mumper
 Clarence Shaffer Musgrave
 Donald Harvey Nichols
 Charles Standish O'Grady
 George Taikin Owyang
 Charles Everly Paul
 Paul Owen Slaven
 Arthur James Wagner
 John Moore Wisterman

VETERINARY CORPS

Cyrus Paul Brose
 Ernest Milton Dickinson
 Russell Emmett Hammond
 Lewis H. Moe

Einer William Johansen
 Ellsworth McElwee
 Samuel Wright Neeley
 Leonard Erwin Swanson

APPENDIX IX

(Not Including Summer Quarter and Extension)

RELIGIOUS CENSUS OF STUDENTS—YEAR 1926-1927

A. M. E.....	25	Methodist Episcopal.....	2870
Armenian	1	Free Methodist.....	1
Baptist	406	Methodist Protestant.....	49
Brethren	35	Southern Methodist.....	2
Catholic	687	Moravian	10
Christian	230	Mormon (Latter Day Saints).....	4
Christian Science.....	96	Nazerene	6
Christian Union.....	5	New Thought.....	2
Church of Christ.....	268	Presbyterian	1341
Church of God.....	10	Progressive Brethren.....	3
Church of the Covenant.....	1	Protestant	58
Community	72	Protestant Episcopal.....	3
Congregational	346	Reformed	181
Disciple	30	German Reformed.....	4
Episcopal	350	Reformed Jewish.....	13
Evangelical	101	Seventh Day Adventist.....	6
Evangelical Protestant.....	11	Sweden Borgen	1
Friends	43	Swedish Mission.....	1
Gospel	2	Union	5
Greek Orthodox.....	8	Unitarian	23
House of Jacob.....	2	United Brethren.....	193
Independent Protestant.....	13	United Presbyterian.....	104
International Bible Students.....	7	Universalist	25
Jewish	659	None given.....	1552
Lutheran	551		
Mennonite	9	Total	10,425

OCCUPATIONAL CENSUS OF PARENTS AND GUARDIANS—YEAR 1926-1927

Accountants, Clerks, Bookkeepers.....	223	Chefs, Caterers, Cooks.....	7
Advertising	18	Chemists	14
Apiarist	1	Clergymen	147
Architects, Draftsmen.....	21	Coal and Ice.....	40
Army and Navy.....	9	Contractors and Builders.....	295
Artisans	33	Dancing Teacher.....	3
Attorney, Judges, and Statesmen.....	167	Dairymen	38
Auctioneers	3	Decorators and Painters.....	59
Authors	3	Dentists	64
Automobile Dealers	44	Designers	10
Aviators	1	Detectives	3
Bakers and Confectioners.....	41	Diver	1
Bankers	90	Druggists and Pharmacists.....	70
Barbers	50	Dry Cleaners.....	18
Baseball Player.....	1	Editors and Newspapermen.....	30
Blacksmiths	18	Electricians	39
Bookbinders	5	Engineers (Professional).....	116
Breeders of Silver Foxes.....	1	Engineers (Stationary).....	129
Brokers	36	Farmers and Ranchers.....	1244
Business	86	Filling-station Operators.....	4
Business Executives, Managers, Superintendents, Secretaries, etc.....	432	Florists, Gardeners, and Nurserymen.....	75
Butchers and Meat Dealers.....	31	Foremen	112
Carpenters and Cabinetmakers.....	118	Garage, Repairing and Supplies.....	35
Chauffeurs	3	Glass-workers	6
		Golf (professional).....	3

Government, State, County, and Municipal Employees.....	315	Politicians	4
Grain, Hay, and Lumber.....	66	Potters	13
Grocers	124	Poultrymen	10
Hotel and Restaurant Owners and Employees	47	Printers and Publishers.....	68
Importers	2	Railway, Lake and Street Railway Officials and Employees.....	317
Inspectors	22	Real Estate.....	222
Insurance	135	Retired	281
Interior Decorators.....	17	Riding Master.....	1
Inventors	1	Salesman	384
Iron and Steel Workers and Molders.....	109	School Officials, Superintendents, Professors, and Teachers.....	235
Janitors	22	Scientists	2
Jewelers	39	Shoe-workers and Repairers.....	14
Jobbers	17	Social Workers.....	2
Junk Dealers.....	22	Students	4
Laborers	123	Surveyors	2
Laundrymen	13	Tailors and Seamstresses.....	74
Lecturers	2	Telegraph and Telephone Officials and Operators	39
Liverymen and Teamsters.....	5	Theater	2
Livestock Dealers.....	19	Tinners	10
Machinists	95	Toolmakers	18
Manufacturers	177	Transfer and Storage.....	25
Mechanics	75	Undertakers	18
Merchants	603	Upholsterers	4
Millers	29	Veterinarians	17
Mine Operators	43	Watchmen	5
Missionaries	3	Well-drillers	8
Musicians and Artists.....	18	Wholesale	45
Oil Producers and Dealers.....	44	Y. M. C. A., Y. W. C. A., and Other Religious Workers	7
Opticians and Optometrists.....	17	Mothers (with no occupations).....	800
Osteopaths and Chiropractors.....	7	None given or Deceased.....	1337
Photographers	14		
Physicians, Surgeons, and Nurses.....	208		
Piano-tuners	2		
Plasterers	5	Total	10,425
Plumbers	21		

SUMMARY

ENROLLMENT BY STATES AND COUNTRIES—YEAR 1926-1927

Abyssinia	1	Illinois	34
Alabama	2	India	1
Argentine Republic	3	Indiana	75
Arizona	1	Iowa	12
Arkansas	1	Japan	4
Austria	1	Kansas	6
Brazil	1	Kentucky	20
California	5	Korea	1
Canada	1	Louisiana	4
Canal Zone	1	Maine	1
China	39	Maryland	3
Colombia, South America.....	2	Massachusetts	16
Colorado	1	Michigan	17
Connecticut	3	Minnesota	2
Cuba	1	Mississippi	4
Delaware	1	Missouri	12
District of Columbia.....	12	Nebraska	8
Dominican Republic.....	2	New Hampshire	2
Florida	12	New Jersey	25
Georgia	4	New York	41
Guam	1	North Carolina.....	2
Hawaii	5	North Dakota	

Ohio	9761	Turkey	2
Oklahoma	4	Utah	2
Pennsylvania	126	Vermont	3
Peru	1	Virginia	12
Philippine Islands	7	Washington	1
Porto Rico	1	West Virginia	69
Rhode Island	2	Wisconsin	6
South Carolina	3	Wyoming	1
South Dakota	2		
Tennessee	15	Totals	10,425
Texas	13		

SUMMARY

ENROLLMENT IN OHIO BY COUNTIES—YEAR 1926-1927

Adams	13	Hamilton	130	Noble	20
Allen	71	Hancock	44	Ottawa	31
Ashland	38	Hardin	43	Paulding	19
Ashtabula	58	Harrison	32	Perry	55
Athens	36	Henry	13	Pickaway	64
Auglaize	63	Highland	44	Pike	12
Belmont	80	Hocking	31	Portage	54
Brown	20	Holmes	15	Preble	37
Butler	79	Huron	53	Putnam	39
Carroll	11	Jackson	34	Richland	76
Champaign	48	Jefferson	36	Ross	91
Clarke	103	Knox	51	Sandusky	48
Clermont	22	Lake	36	Scioto	63
Clinton	32	Lawrence	24	Seneca	41
Columbiana	73	Licking	129	Shelby	22
Coshocton	41	Logan	59	Stark	174
Crawford	63	Lorain	113	Summit	146
Cuyahoga	960	Lucas	192	Trumbull	75
Darke	70	Madison	55	Tuscarawas	68
Defiance	32	Mahoning	173	Union	54
Delaware	75	Marion	78	Van Wert	28
Erie	65	Medina	32	Vinton	12
Fairfield	115	Meigs	29	Warren	19
Fayette	35	Mercer	21	Washington	61
Franklin	3823	Miami	62	Wayne	74
Fulton	48	Monroe	30	Williams	49
Gallia	19	Montgomery	254	Wood	13
Geauga	26	Morgan	43	Wyandot	22
Greene	46	Morrow	22		
Guernsey	55	Muskingum	106	Total	9761

